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AN/URC-78(XE-1)/V FINAL RELIABILITY PREDICTION AND MATH MODELS REPORT

Cincinnati Electronics Corporation

Prepared for:

Army Electronics Command

29 March 1974

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# AN/URC-78(XE-1)/V

# FINAL RELIABILITY PREDICTION AND MATH MODELS REPORT

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PREPARED BY

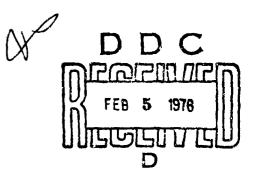
CINCINNATI ELECTRONICS CORPORATION

FOR

UNITED STATES ARMY ELECTRONICS COMMAND

29 MARCH 1974

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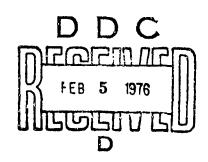
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# AN/URC-78(XE-1)/V RELIABILITY PREDICTION

#### 1.0 INTRODUCTION

This report presents the method, bases and results of the final reliability prediction performed on Cincinnati Electronics' URC-78 equipment design. The predicted MTBF for the three system configurations is 9,515 hours for the Manpack, 1,925 hours for the Vehicular and 1,925 hours for the Airborne.

This report updates the 17 July 1973 submittal. It reflects the anticipated design changes needed for the production model.

The description of equipment and operating conditions used are presented in paragraph 2.0, sources of failure rate data in paragraph 3.0, and the reliability model in paragraph 4.0.

#### 2.0 EQUIPMENT AND OPERATING CONDITIONS

The reliability prediction was performed on three system configurations of the Ultra-Reliable VHF-FM equipment. Common to all three systems is the receiver-transmitter. The airborne system contains an additional applique unit and the vehicular system contains a 40 Watt power amplifier, a vehicular antenna, a vehicular applique and the receiver-transmitter. The prediction for the URC-78 system is based on the anticipated production model design.

Operating conditions used for the equipments for prediction purposes were as follows:

(a) Equipment ambient Temperature:

Manpack - 50°C

Vehicular - 50°C

Airborne - 50°C

(b) Resulting part ambient temperature as determined by thermal analysis:

Manpack - 65°C

Vehicular - 65°C

Airborne - 70°C

(c) Equipment operation-continuous with following functional duty cycles:

	Manpack	<u>Vehicular</u>	Airborne
Receive	90%	90%	90%
Transmit	10%	10%	10 ~
Tune Cycle	0.5%	N/A	N/A
Receive Band Operation	each $30\%$	each $30\%$	each 30 $%$
Xmit Band Operation	each 5%	each 5%	each $5\%$
40 Watt Power Amplifier	N/A	9%	N/A
5 Watt Power Amplifier	N/A	1%	N/A
Guard Receiver	N/A	N/A	80%
Homing Receiver	N/A	N/A	<b>10</b> %

	Manpack	<u>Vehicular</u>	<u>Airborne</u>
Self Test	N/A	N/A	1%
Preset Switch	.5%	.5%	.5%
Secure Transmission	5%	5%	5%
Secure Retransmit	27(	2%	2%
Preset/Manual	75%/25%	<b>75%/25%</b>	75%/25%

The duty cycles shown in the stress analysis sheets were obtained from the above duty cycles. In some cases, duty cycles were combined when the same circuitry was used for two different functions, such as the secure functions operational modes. In these modes the IF crystal filter operational duty cycle is added to the normal operational duty cycle. Many parts have a 100% duty cycle. These are parts to which power is supplied continuously and, therefore, are continuously stressed regardless of the mode of operation. Therefore, the operational duty cycles are masked by the continuous power operation.

#### 3.0 FAILURE RATE SOURCES

The following sources were used for the part failure rates shown on the detailed stress analysis forms in the appendices.

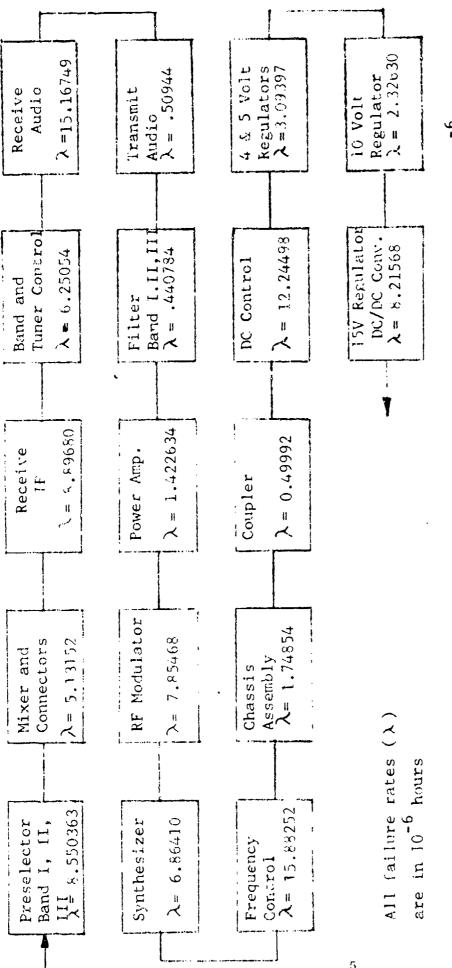
- 1. All discrete type parts except Established Reliability resistors and capacitors MIL-HDBK-217A.
- 2. Varactor Diodes Cincinnati Electronics Reliability Test Data

- 3. Hybrid Microcircuits Proposed MIL-HDBK-217B Hybrid Failure
  Rate Model as Supplied by USAECOM.
- 4. Monolithic Integrated Bipolar Microcircuits RADC-TR-67-108,

  Volume II and RADC-TR-69-350 (Appendix V).
- 5. Established Reliability Resistors and Capacitors MIL-STD-199 and MIL-STD-198, respectively.
- 6. MOS LSI, MSI and CMOS USAECOM.

#### 4.0 RELIABILITY MODELS

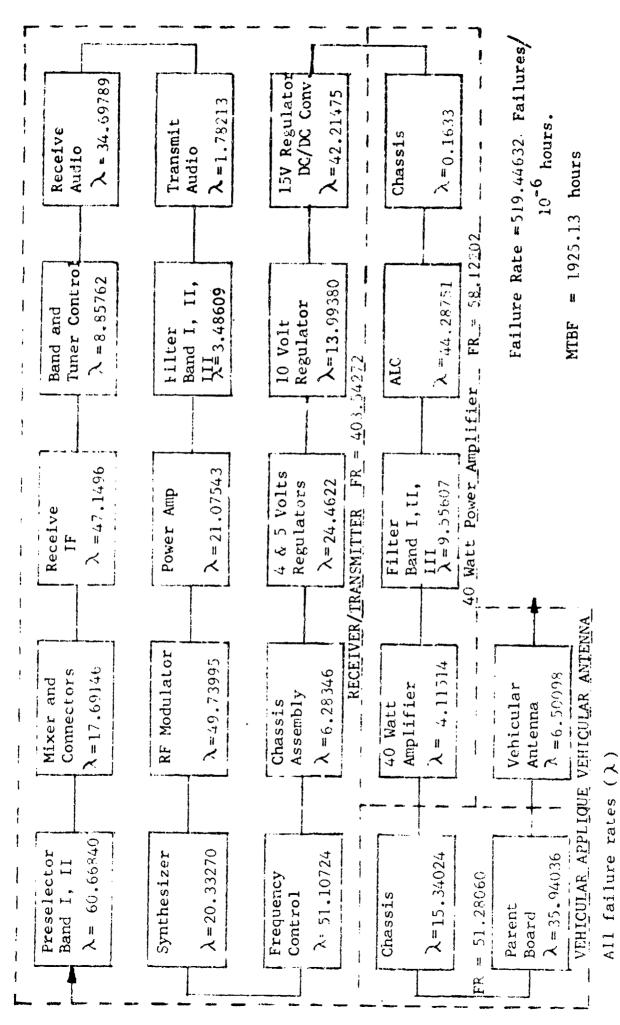
The reliability models for the three system configurations are shown in Figures II through IV. These models show the equipments as straight series models and assume any one part failure will cause a failure of the equipment to perform its intended function(s). Therefore, the individual functional usage is included in each block failure rate by the duty cycle which the parts associated with the function are stressed. These block failure rates are for the operational duty cycles given in paragraph 2.0. The duty cycle of each part in each block is shown in Appendix I through III to this report which contains the detailed back-up for failure rate determination of each part in the equipments. The blocks in the diagrams are directly related to this detailed back-up by block title.



Fillure Rate = 105,1003 failures/10<sup>-6</sup> hours MTBF = 9514,72 hours

Manpack Configuration

Figure II

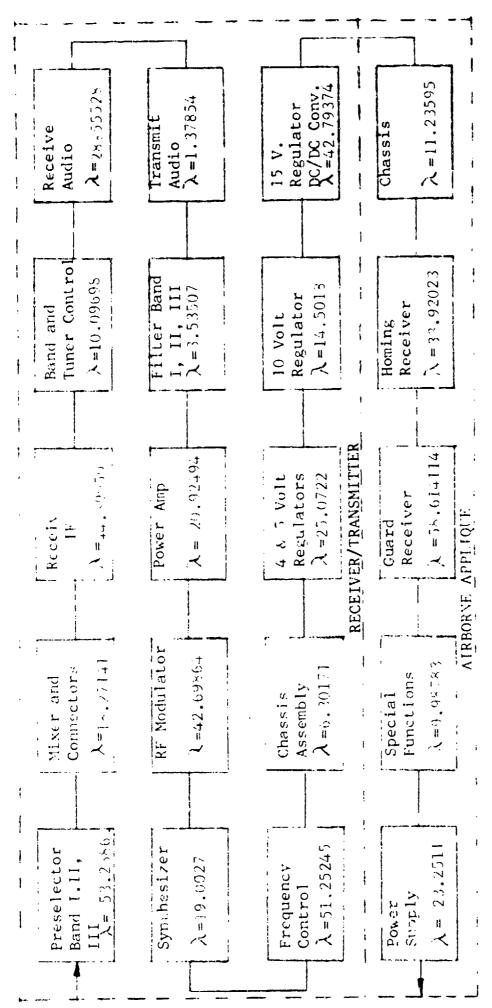


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are in 10-6 hours.

Vehicular Configuration

Figure 111



All failure rates ( $\lambda$ ) are in  $10^{-6}$  hours

7

Failure rate = 519.52285 failure/10 hours MTBF = 1924.84 hours

Airborne Configuration

Figure IV

### 5.0 COMMENTS ON RELIABILITY PREDICTION

A comparison of this prediction as calculated in this report with that presented in the "Interim Reliability Prediction and Math Mode" Report", dated 3 August 1972, is tabulated below for each of the system configurations:

#### MTBF COMPARISON

	3 August 1972	20 March 1974
Manpack System	9,452 hrs	9,515 hrs
Vehicular System	1,233 hrs	1,925 hrs
Airborne System	1,433 hrs	1,925 hrs

As shown by this comparison, the present predicted reliability for all three of the system configurations exceeds the original predicted reliability which was based on an optimistic conceptual paper design. This is believed to be a noteworthy accomplishment since Cincinnati Electronics experience in past radio developments has shown that the design concepts usually envisioned for an equipment at the start of a development program have a nasty habit of growing in complexity during development resulting in a lower MTBF than initially predicted. It is recognized that this predicted MTBF is not necessarily the "proof of the pudding"; however, the unique reliability program followed for this development, which maintained a constant awareness on the need for a highly reliable, low life cycle cost

equipment on all cognizant design and management personnel, has resulted in an equipment which exceeds its original design expectations.

Table I is a list of the major part types contained in the equipment versus the total failure rate per part type and the percentage of the total failure rate represented by that particular part type for each of the equipment configurations. For the manpack configuration of the equipment, the highest failure rate components are the hybrid circuits, which make up approximately 43% of the total failure rate. However, in the other two configurations of the equipment, this percentage is reduced to approximately 16% to 17%. As shown in the appendices to the report, hybrids and many other part failure rates are based on the use of screened or established reliability parts. However, for the vehicular and airborne configurations of the equipment examination of Table I shows other part categories, with failure rates that are not based on screened or established reliability type parts, are equal to or exceed the hybrid circuit failure rate. For example, the percentage of total failure rate in the vehicular and airborne configuration for inductors is 16.6% and 18.75% respectively. Both exceed the hybrid circuit failure rate percentage of 16.35% and 17.76%. This strongly suggests that selective screening of certain part types would be a valid method for reliability improvement. However, implementing this

TABLE I - PART TYPE FAILURE RATE PERCENTAGE OF TOTAL

	1 upa	ck	Vehicula	r	Airborne	
Part Type	FR x 10 <sup>-6</sup>		$FR \times 10^{-6}$	% Total	$FR \times 10^{-6}$	% Total
Diodes	7.796800	7.42	46.547250	8.96	65.152650	12.54
Varactors	5.880000	6.60	42.000000	8.09	30.240000	5.82
	45.727150	43.51	89.934710	16.35	92,242820	17.76
Hybrids	İ				i	ì
Filters	1.224000	1.17	7.344000	1.41	15.504000	2.98
Resistors Car.	0.095460	0.09	0.310730	0.06	0.340832	0.07
Resistors W.W.	0.274005	0.26	2.180700	0.42	1.813800	0.35
Resistors Film	0.024840	0.02	0.240000	0.05	0.252000	0.05
Resistors Var.	1.169600	1.11	5.000000	0.96	15.000000	2.89
Capacitors Tant.	0.689895	0.66	0.881480	0.17	0.966120	0.19
Var. Caps. Cer.	0.032400	0.03	0.043110	0.01	0.067000	0.01
Mica Capacitors	0.000561	.01	0.009975	.01	0.005940	.01
• . NPO Caps.	0.020403	0.02	0.123200	0.02	0.140000	0.03
Var. Glass Caps.	0.00	0.00	0.930000	0.18	0.00	0.00
Capacitors Glass	0.00	0.00	0.000394	.01	0.00	0.00
Capacitors Cer.	0.055653	0.05	0.378415	0.07	0.453295	0.09
Inductors	9.299999	9.45	86.193199	16.60	97.441999	18.75
Transformers	4.200000	4.00	33.560000	6.48	37.020000	7.13
Transistors	1.672050	1.59	53.989120	10.39	37.010640	7.12
Relays	1.704920	1.62	64.850500	12.49	35.471500	6.33
Connectors	0.222582	0.21	0.672182	0.13	0.512910	0.10
Pinlites	0.175000	0.17	35.000000	6.74	35.000000	6.74
Switches	0.188880	0.18	6.866100	1.32	1.244880	0.24
Fuses	0.100000	0.10	0.300000	0.06	0.200000	0.04
Monolithic IC's	19.347664	18.41	33.958800	6.54	39.595080	7.62
* Thermistors	0.00	0.00	0.027000	.01	0.300000	0.06
м er	4.554000	4.33	12.948170	2.49	13.545000	2.61
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improvement could adversely impact life cycle costs. Therefore, a complete analysis of screening versus life cycle cost is being conducted and the results of this analysis will be included in the Final Life Cycle Cost Analysis Report.

# APPENDIX I

STRESS ANALYSIS - MANPACK

1501-36-55   217A/7.6-23   65 volte   100   0   1   307   6   1   307   30	4	. 2732 STRESS	S ARALY	7.81 %										1		ļ
Pactfor   C1   JFD   DV510H   217A/7.6-23   65 volts   100   0   1   307   6   4   4   6   6   6   6   6   6   6		.w. 8		`		3 Tel	140		43.		L/V3	SNI				*
pact tor         C1         JFD         DV510H         217A/7.6-35         65         voits         100         0         1         307         4           C2         IFD         1501-36-55         217A/7.6-25         65         voits         100         0         1         307         4           C3         IFD         DV510-36-55         217A/7.6-25         65         voits         100         0         1         307         4           C5         JFD         N/510-36-55         217A/7.6-25         65         voits         100         0         1         307         4           C7         JFD         N/510-4         217A/7.6-25         65         voits         100         0         1         307         4           C6         1501-36-55         217A/7.6-25         65         voits         100         0         1         307         6         1         307         6         1         307         6         1         307         6         1         307         6         1         307         6         1         307         6         1         307         6         1         307         6         1         <	MEX		THU'S	- W	TANA TANA	APPLICA SPEC.	S. CONO.	D. D.	C3L VA		SS. OPER.	A TO		2	. 1	307
C2         ISOL-36-55         217A/7.6-25         65         volte         100         0         1         307         4           C4         JFD         DV51034         217A/7.6-25         65         volte         100         0         .1         307         4           C5         JFD         DV51034         217A/7.6-25         65         volte         100         0         .1         307         4           C6         JFD         DV51034         217A/7.6-25         65         volte         100         0         .1         307         4           C12         L501-36-55         217A/7.6-25         65         volte         100         0         .1         307         4           C15         JFD         DV5104         217A/7.6-25         65         volte         100         0         .1         307         4           C15         JFD         DV5104         217A/7.6-25         65         volte         100         0         .1         307         4         1         307         4         1         307         4         1         307         4         1         307         4         1         1007         0<		Ž	[]		DV 510H	.6-3	6.5	volts	100		1-1	30%	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	600		7,000
C4         IFD         DV51034         217A/7.6-25         65         volts         100         0         1         30%            C5         JFD         1501-36-55         217A/7.6-25         65         volts         100         0         .1         30%             C6         1501-36-55         217A/7.6-25         65         volts         100         0         .1         30%             C12         1501-36-55         217A/7.6-25         65         volts         100         0         .1         30%           1         30%           1         30%           1         30%           1         30%           1         30%           1         30%           1         30%           1         30%          1         30%           1         30%           1         30%           1         30%           1         30%          30%          30% <th></th> <th></th> <th>C2</th> <th></th> <th>1501-36-55</th> <th>217A/7.6-25</th> <th></th> <th>volte</th> <th>100</th> <th>0</th> <th>1,</th> <th>30%</th> <th>1, 2</th> <th>200</th> <th>4</th> <th>,0006</th>			C2		1501-36-55	217A/7.6-25		volte	100	0	1,	30%	1, 2	200	4	,0006
C5   JFD   1501-36-55   217A/7.6-25   65 volts   100   0   .1   30%   65   17   18   18   18   18   18   18   18			77	JFD	DV5103	2174/7.6-33	65	volts	100	a	4	302	7	000		0027
CG JFD JFD JW510H 217A/7.6-25 65 volts 100 0 .1 30% c 1 1501-36-55 217A/7.6-25 65 volts 100 0 .1 30% c 1 30% c 1 1501-36-55 217A/7.6-25 65 volts 100 0 .1 30% c 1 30% c 1 1501-36-53 217A/7.6-25 65 volts 100 0 .1 30% c 1 30% c 1 1501-36-53 217A/7.6-23 65 volts 100 0 .1 30% c 1 30% c 1 1501-36-53 217A/7.6-23 65 volts 100 0 .1 30% c 1 100% c 1 1 30% c 1 100% c 1 1 1 100% c 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			C5		1501-36-55	217A/7.6-25		volts	100	0	.1	30%	1. >	200	4	9000
C12 C.6 IS01-36-55 217A/7.6-25 65 volts 100 0 .1 30% < C12 C.1 1501-36-53 217A/7.6-25 65 volts 100 0 .1 30% < C12 C.1 1501-36-53 217A/7.6-25 65 volts 100 0 .1 30% < C13 JFD Dy510H 217A/7.6-25 65 wolts 100 0 .1 30% < C14 C.8 CKRO5BX102KN 198B/1001.2 65 mW 125 c.1 c.1 100% < C15 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301.2 65 mW 125 c.1 c.1 c.1 100% < C17 C.8 CKRO5G104JS 199A/301			C7	JFD	№510Н	217A/7.6-33		volts	100	0	1.	30%	۸.1	600	•	.0027
C12         JFD         1501-36-53         217A/7.6-25         65         volts         100         0         .1         30%         6           C15         JFD         DV510H         217A/7.6-33         65         volts         100         0         .1         30%         6           C9         CKR05BX102K3         198B/1001.2         65         m/4         125         6.1         10%         0         .1         30%         6           R1         R2         CKR05G104JS         199A/301.2         65         m/4         125         6.1         6.1         100%         6         10%         0         1         30%         6         10%         0         1         10%         0         1         0         0         1         0         0         1         0         0         1         0 <th></th> <td></td> <td>93</td> <td></td> <td>1501-36-55</td> <td>217A/7.6-25</td> <td></td> <td>volts</td> <td>100</td> <td>0</td> <td>.1</td> <td>30%</td> <td>&lt; .1</td> <td>.002</td> <td>1</td> <td>0000</td>			93		1501-36-55	217A/7.6-25		volts	100	0	.1	30%	< .1	.002	1	0000
C9 JFD DV510H 217A/7.6-33 65 volte 100 0 .1 307. 6-7 (CR05BX102K) 198B/1001.2 65 wolte 200 15 15 1007.			C12		1501-36-53	217A/7.6-25		volts	100	0		36%	< .1	200	4	9000
C9 CRR05BX102KR 198B/1001,2 65 my 125 <1 <1 1007, 4 R1 RCR05G104JS 199A/301,2 65 my 125 <1 <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1 1007, <1			213	JFD	DV510H	217A/7.6-33		volts	100	0	٠,	30%	5.1	600	•	.0027
R1         R2         RCROSG104JS         1994/301.2         65         my         125         < 1			63		CKR05BX102KI	198B/1001,2	65	volts	200	15	15	100%	.075	0005	1	2000
R2         RCR05G302J3         199A/301.2         65         mW         125         < 1		Resistor	R1		RCR05G104JS	199A/301,2	65	Λm	125	· 1		100%	< 11 ×	,000	9	. 9012
R3         RCR05G104JS         1994/301.2         65         mW         125         < 1			R2		RCR05G302J3	199A/301.2		J.	125	1		100%	< · 1	2000.	9	.0012
R4         RCR05G302JS         1994/301.2         65         mW         125         < 1			R3		RCR05G104JS	•		ШV	125			100%	c .1	.0002	6	.0012
R9         RCR05G104JS         199A/301.2         65 mW         125 < 1 < 1			R4		RCR05G302JS	•		通	7	- 1		100%	< .1	.0002	9	.0012
RF         L1         Lenox         Fugle         NR2.7         217A/7.7-9         65         mW         125         0         10         30%           RF         L1         Lenox         Fugle         NR3.3         217A/7.7-9         65          30%           L3         Lenox         Fugle         NR3.9         217A/7.7-9         65          30%           L4         Lenox         Fugle         NR1.8         217A/7.7-9         65           30%           L5         Lenox         Fugle         NR0.47         217A/7.7-9         65           30%			R3		RCR05G104JS	• •		·A	~	- 1	,	100%	6.1	2000	9	.0012
RF         L1         Lenox Fugle         NR3.3         217A/7.7-9         65           L2         Lenox Fugle         NR3.9         217A/7.7-9         65           L3         Lenox Fugle         NR3.9         217A/7.7-9         65           L4         Lenox Fugle         NR1.8         217A/7.7-9         65           L5         Lenox Fugle         NR0.47         217A/7.7-9         65			R9		RCR05G202JS	199A/301.2		iş.	~	0	22	30%	4.1	0003	9	.0003
Lenox Fugle       NR3.3       217A/7.7-9       65         Lenox Fugle       NR3.9       217A/7.7-9       65         Lenox Fugle       NR1.8       217A/7.7-9       65         Lenox Fugle       NR0.47       217A/7.7-9       65			1.1	Lenox Pugle	NR2.7	217A/7.7-9						30%		.2		90.
Lenox Fugle         NR3.9         217A/7.7-9         65           Lenox Fugle         NR1.8         217A/7.7-9         65           Lenox Fugle         NR0.47         217A/7.7-9         65			17	Lenox Fugle	NR3.3	217A/7.7-9						30%		.2	-	90.
Lenox Fugle NR1.8 217A/7.7-9 65 Lenox Fugle NR0.47 217A/7.7-9 65			13	Lenox Fugle	NR3.9	217A/7.7-9						30%		. 2		90•
Lenox Fugle NRO.47 217A/7.7-9 65			3	Lenox Fugle	NR1.8	217A/7.7-9						30%		.2		90.
ı			1.5	Lenox Fugle	NRO.47	217A/7.7-9						30%		.2	-	96

TOTAL FAILURE RATE . 032006 X.
AT\_\_\_\_ DEGREES CENTIGRADE

FUNCTIONAL BLOCK Preselector, Band I Manpack

DATE 25 June 1973

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DRAWING NO. 377450. Tuner

- 272	FESS	S ANALYSIS	S I S												
. B. W.					378	"	*5	43.		11/3	SNI	375,			;
* MEL!	JAN N	Posmus	MANUE	PART	Sagas Sagas	RT. CHO!	D'APA'	CATED		SILO	TAN390	223912 10 -11 U	0	. \	3014 4
Capacitor	citor	23.3		CKR05BX102KR	1988/1001.2	65	Volta	200	1	7	1007	,		-	0005
		ເວ		CKR05BX102KR		65	Volts	200	9	90	1007	4 1		-	0011
Trans	Transformer	7.	Cin. Elec.		217A/7.7-9	65					307		4	1 1	50.05
		7.2	Cin, Elec.		217A/7.7-9	65					30%		,	-	2 8
Relay		KI	Teledyne	421D-26	217A/7.10-5	65					30%		0093	2,5	0900
Diode	Diode Verac.	CR1	TRM	371256-1	Cin. Elec.	65					1007	6.1	14		7.1
		CR2	TRW .	371256-1	Cin. Flec.	65					1007	< .1	1,		77
_		CR3	TRW	371256-1		65					100%	c .1	77	,	14
		CR4	TRW	371256-1	Cin. Elec.	65					1007	1. 4	14	'	14
		CRS	TRW	371256-1	Cin. Elec.	65					2001	< .1	·1	,	14
		CR6	TRW	371255-1	Cin. Elec.	65					100%	< .1	1,4		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
-		CR7	TRW	371256-1	Cin. Elec.	65					100%	۾ .1	71.	,	14
		CR8	TRW	371256-1	Cin. Elec.	65					1007.	c1	.14	•	7,1
Capacitor	ttor	013		CKR05BX102KR	1988/1001.2	65	Volts	200	15	15	100%	4.1	0005		0000
+		77.3		CKR05BX102KR	198B/1001.4	65	Volts	200	0	2	30%	c .1	5000	<b>e</b> -1	00015
		C15		CKR05BX102KR	198B/1001.2	65	Volts	200	0	5	30%	7.1	0005		0001
		C23		CKR05BX102KR	1988/1001.2	65	Volts	200	06	06	100%	.45	.0011		0011
+		772		CKR05BX102KR	198B/1001.2	65	Volts	200	15	15	100%	71	0005	-	0005
		C25		CKR05BV102KR	198B/1001.2	65	Volts	200	15	15	100%	1. >	\$000	1	0005
		C26		CKR05BX102KR	198B/1001.1	65	Volts	200	0	5	30%	4.1	.0005		.0001

TOTAL FAILURE RATE .1311625 X10"5 DEGREES CENTIGRADE Preselector, Band I Manpack 25 June 1973

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FUNCTIONAL BLOCK

DPAWING NO. 377450, Tuner

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•	Z712 THESS	S AKALYSI	YSI S	•											
rai	W. D. A.		JOBNA S. P. L. P. L. C.	TARA	3 TRICY BY E	10 the 1	TO BY	PA PED OF PED		ONI ESCENT	2NITARING TIVO	31000 400	1 0,00		10 20 E
	Capaciter	Ç93		CKR05BX102KR	1988/1001.2	65	volts	200	'	15	1007.	Y	0005	-	5000
		553		1501-36-102	2174/7.6-25	65	volts	100	O	.1	337.	٨.١	.002	1	0000
	Resistor	83		RCR05G104JS	1994/301.2	65	ME	125	1 >	د 1	100%	1'>	0002	9	0012
		R6		RCR05G622JS	199A/301.2	65	預	125	•	41	30%	1.>	0005	9	00036
		R7		RCR05G302JS	199A/301.2	65	A	125	< 1	<.1	100%	<.1	0002	9	0012
	\$	R11		RCR05G333JS	1994/301.2	65	Will	125	0	い	30%	<.1	0002	9	C003
		R12		RCR056104JS	1994/301,2	65	Min	125	0	۲1 ۲۱	30%	<.1	0007	9	00036
		R13		RCR05G303JS	1994/301.2	65	TIIM,	125	O	Į,	30%	< .1	0002	6	00036
		R14		RCR05G303JS	1994/301.2	65	ME	125	0	<u>C1</u>	30%	<.1	0002	9	00036
	Inductor	J.	Lenox Fugle	NR10	217A/7.7-9	65					30%	,	.2	1	90
		7	Lenox Engle	MR10	217A/7.7-9	65					30%		.2	-	•06
		717	Lenox Fugle	NR10	217A/~ 5-25	65					90%		2	1	18
	Transformer	T3	Cin. Elec.		217A/7.7-9	65					30%		.2	1.5	60.
		7.7	Cin. Elec.		217A/7.7-9	65					30%		. 2	1.5	60.
Ę	Transfator	10	Siliconix	U320	217A/7.4-13	.37	watts	3	0	.15	30%	•05	.608	1	.1824
anais	Transistor	07		JAN2N2907	217A/7.4-13	,228	音	400	0	9.	30%	< .01	.511	1,5	22995
	Diode, Pin	CR9	Hew, Pack,	HP5082-3168	217A/7,4-11	.32	mivi	250	0	1.4	30%	<.0ì	.269	1.5	1210
													·		•
							_								

\_ X10°5 DEGREES CENTIGRADE TOTAL FAILURE RATE .101870

> Manpack Preselector, Band I FUNCTIONAL BLOCK

DATE 25 June 1973

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377450, Tuner DRAWING NO.

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स्	TESS		AMALYSIS				ļ							•	
.W.8 .				6	3786		\$	434		LNA	ONI		1	1	103
" rel!	3mn	35	DENN'S WANDER	JANN LAND	O'JAAR O'JAR	200 j	MANA	SWARA		0340 053170	A4340	23418		. `	107 ×
Capa	Capacitor	C29		CKR05BX102KR	198B/1001.2	65	volts	200	06	90	100%	.45	.0011	-1	1100
		C27	JFD	DV510H	217A/7.6-33	65	volts	100	0	.1	30%	< .1		. •	6027
		5		1501-36-49	217A/7.6-25	65	volts	100	O	7	30%	د ، ا	.002	7	0000
		30		руболн	217A/7.6-33	65	volts	100	0	.1	30%	1. >	600	3	0027
		31		1501-36-49	217A/7.6-25	_	volts	100	0	.1	30%	1.2	007	, <del>,</del>	9000
		C33		DV510H	217A/7.6-33	65	volts	100	0	, mi	30%	<.1	600	•	0027
		<b>C32</b>		1501-36-49	217A/7.6-25	65	volts	100	0	.1	30%	1.2	.002	_,	9000
		C34	•	1501-36-62	217A/7.6-25	65	volts	100	0	.1	30%	<.1 <	.002	-	9000
		070		DV510H	217A/7.6-33	65	volts	100	0	.1	30%	۸.1	600	•	0027
		36		CKR05BX102KR	198B/1001.2	65	volts	200	15	15	100%	.075	.0005	<b>,</b>	0005
		C37		CKR65BX102KR	1988/1001.2	65	volts	200	0	٦.	<u> </u>	2.1	.0005	,	00015
Resistor	stor	R15		RCR05G303JS	199A/301.2	65	Men	125	1 >	<1	100%	 V	0002	10	0012
		R16		RCR05G204JS	199A/301.2	65	AE .	125	< 1	<1	2001	<.1	7000	9	0612
		R17		RCK05G302JS	199A/301.2	65	31	125	< 1	77	100%	<.1	<sup>*</sup> 0005	9	0012
-		R18		PCR05G204JS	199A/301.2	65	Mil	125	< 1	<b>~</b> 1	2001	L. 2	2000	9	0012
		R19		RCR05G302JS	199A/301.2	65	音	125	< 1	<b>-</b> 1	1007	4.1	.0002	9	6012
		R20		RCR05G204JS	199A/301.2	65	ΜM	125	< 1	<b>6</b> 1	100%	4.1	0005	q	0012
Indun	Inductor RF	113	Lenox Fugle	NR-3.9	217A/7.7-9	65	-				208		.2	-1	90
		114	Lenox Fugle	NR-2.7	217A/7.7-9	65					30%		.2	1	90
		115	Lerox Fugle	VR-3.9	217A/7.7-9	65					307		2	1	0,6

TOTAL FAILURE RATE 0202150 X10-5
AT DEGREES CENTIGRADE

FUNCTIONAL BLOCK Preselector, Band II Manpack PAGE 1 OF

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DRAWING NO. 377,50, Tuner

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-	CT12 RESS		ANALYSIS				,								
	W.B			_			i .			1	2	3			
A NO.	TANO	***4,	JOHN!	TAP	17° (54 8)	Q.	8	A3T3MAG	•	ASSS 3	MITAR	SS 36	0		30,000
1			*	78.0	1	~	APA	TAN .	\	900 	100	45	\ks	•	301
	Inductor RF	116	Lenox Fugle	MR2,2	21.7	65		]			300		1		1
		117	Lenox Engle	NRO. 33	2174/7.7-9	65							, ,	1.	00.
2	Trensformer	7.5	Cin. Elec.		217A/7.7-9	65					3.5	1	,	]:	9 8
		T6	Cio. Elec.		217A/7.7-9	65					2 5 5	1	7,	4	3
	Relay	Z	Teledyne	4210-26	217A/7.10-5	L					38 %	Ť	7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ন্	60
	Dicde Varac.	CR10	C.D. Co.	3215	Cin. Elec.	9					1	-	2600 :	77	6905
		CR11	C.D. Co.	3215	Cin, Elec.	65					-	• !	7 7	1	77
		CR12	C.D. Co.	3215	Cin. Flec.	65					<del>       </del>	· i ·			1
		CE13	C.D. Co.	3215	Cin, Elec.	65				-	<del> </del> -	*  '	┤ ┤ ┤ ;	1	
		CR14	CR14 C.D. Co.	3215	Cin. Elec.	65					<del>                                     </del>	7	17	-	7 7
		E E	C.D. Co.	3215	Cin. Elec.	65					<del> </del>	•			
		CR16	C.D. Co.	3215	Cin. Elec.	65					<u> </u>	•	14		14
		CR17	C.D. Co.	3215	Cin. Elec.	65					<del></del>	4.1.	14	-	14
		CRIS	C.D. Ce.	3215	Cin. Eiec.	65	1				<del> </del>	1. 7	14	,	14
		8183 19		3215	Cin. Elec.	65						1	14		14
		<b>G</b> 70	Cor	3215	Cin. Elec.	65	-				-	7.1	14		14
		CR21 C.D.	3	3215	Cfn. Elec.	65					-	۲.1	17		17.
				371256-1	Cin. Elec.	55	<del>- </del>				-	,	14	+;	14
		<del>-  </del>	TRH	371256-1	Cin. Elec.	65					> 2001		.14	•	-14
	Capacitor	S S		CKR05BX102KR	1588/1001.2	65	volte	200	10	4	1002 <	4	,0005	-	.0005

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Manpack Preselector, Band II FUNCTIONAL BLOCK

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DRAWING NO.

\_x10.5 TOTAL FAILURE RATE . 226740

DEGREES CENTIGRADE

Capacitor   C13	Z/72	RESS ANA	ANALYSIS												
Capac.tor   C39   Signature    .w.8				37	}	,	8		14	24	37.		1	*	
Capacitor   C39			- W		Appl CAS		PO BY	313m		13)53.	11/10	353445	0,0		301
C41         CKPOSBKIONER 198B/1001.2         65         200         6         5         50%         C.1         1,0005         1           C42         CKROSBKIOZKR 198B/1001.2         65         200         0         5         10%         C.1         1,0005         1           C43         CKROSBKIOZKR 198B/1001.2         65         200         90         1007         C.1         1,0005         1           C45         CKROSBKIOZKR 198B/1001.2         65         200         0         5         30%         C.1         1,0005         1           C45         CKROSBKIOZKR 198B/1001.2         65         200         0         5         30%         C.1         1,0005         1           C62         CKROSBKIOZKR 198B/1001.2         65         m         125         20         0         5         30%         C.1         1,0005         1           Resistor         RZBOSGIOJAS         199A/301.2         65         m         125         C.1         1,000         C.1         1,000 <td>Capacator</td> <td>c39</td> <td></td> <td>501-36-53</td> <td>\$17A/7.6-25</td> <td><del></del></td> <td></td> <td>100</td> <td>0</td> <td>1:</td> <td>307.</td> <td>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</td> <td></td> <td>-</td> <td>000</td>	Capacator	c39		501-36-53	\$17A/7.6-25	<del></del>		100	0	1:	307.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		-	000
C42         ÇKRÖSBXİQİRR         QSBZİLOĞIR         1988/1001.2         65         200         6         5         1007.         4.1         10005         1           C43         ÇKRÖSBXİQİRR         1988/1001.2         65         200         15         15         1007.         -45         -601         1           C44         ÇKRÖSBXİQİZKR         1988/1001.2         65         200         15         15         1007.         -1         10005         1           C45         ÇKRÖSBXİQİZKR         1988/1001.2         65         200         0         5         1007.         -1         10005         1           C62         ÇKRÖSBXİQİZKR         1988/1001.2         65         10         0         5         1007.         -1         10002         6         1           Režistor         KÜZÖSGÜZÜZIS         1994/301.2         65         10         10         1         <		C41		CKP05BX107KR	H98B/1001.2	65		200	0	2	30%		.0005	-	000
C43         CKROSDXIOZKR         198B/1001.2         65         200         90         90         1007.         45, GGII         1           C44         CKROSDXIOZKR         198B/1001.2         65         200         15         15         1007.         <.1		C42		CKR05BX162KR	1988/1001.2	65		200	0	3	30%		.0005	•	000
C44         CKROSENIOZRR 1988/1001.2         65         200         15         15         1007         C.1         0005         1           C45         CKROSENIOZRR 1988/1001.2         65         200         0         5         307         C.1         .0005         1           Resistor         R22         CKROSENIOZRR 1988/1001.2         65         min         125         C1         K1         1007         C.1         .0002         6           R22         RCROSGIOJAS         1994/301.2         65         min         125         C1         K1         1007         C.1         .0002         6           R23         RCROSGIOJAS         1994/301.2         65         min         125         C1         k1         1007         C.1         .0002         6         7 </td <td></td> <td>C43</td> <td></td> <td>CKR05BX152KR</td> <td>•</td> <td>65</td> <td></td> <td>200</td> <td>8</td> <td>8</td> <td>1007.</td> <td>.45</td> <td>.0011</td> <td>-</td> <td>. 0011</td>		C43		CKR05BX152KR	•	65		200	8	8	1007.	.45	.0011	-	. 0011
C62   CKRO5BX102KR 198B/1001.7   65   1200   90   90   10072   4.5   10010   1   1   1   1   1   1   1   1		C44		CKRO5BX102KR	•	65		200	15	15	1007	•	.0005	-	000
Resistor   R21		C45		CKROSBX102KR		65		200	0	2	397		0005	-	000
Registor   R21		C62		CKRO5BX102KR		65		200	96	06	100%	.45	.0011	-	0011
R22   RCRO5G3C2JS   199A/301.2   65 mW   125 K1 K1   1007, C.1   1000 6   6   6 mW   125 K1 K1   1007, C.1   1000 6   6   6 mW   125 K1   1007, C.1   1000 6   6   6 mW   125 K2   1000 6   1000 6   100	Resistor	RZI		RCR05G104JS	199A/301.2	65	· A	125		77	100%	4 •	.000	مد	0010
R24   R25   RCRO5G3331S   1994/301.2   65 mW   125   6   10   30%   6.1   1.0002   6     R25   RCRO5G3331S   1994/301.2   65 mW   125   0   6.1   30%   6.1   1.0002   6     R26   RCRO5G303JS   1994/301.2   65 mW   125   0   6.1   30%   6.1   1.0002   6     R27   RCRO5G303JS   1994/301.2   65 mW   125   0   6.1   30%   6.1   1.0002   6     Inductor   L19   Lenox Fugle   RR10   2174/7.7-9   65 mW   125   0   6.1   30%   6.1   1.5     Transformer   T7   Cin. Llec.   2174/7.7-9   65 mW   250   0   1.4   30%   6.1   2.2   1.5     Blade Fin   CR24   few Pac.   RP5082-3168   2174/7.4-11   32 mW   400   0   1.5   30%   6.0   1.5     R29   R11conir   R320   2174/7.4-13   37 mW   400   0   1.5   30%   6.0   1.5     R29   R29   R20		R22		RCR05637235	199A/301.2	65	win.	125		7	100%	•	0002	9	0013
R24		R23		kCR05G202JS	199A/301.2	65	Měv	125	<b>a</b>	10	30.		0007	9	.0003
R25		R24		RCR05G333JS	199A/301.2	65	Z.	125	O	7	30.	٦.	2000	9	0003
R26		R25		ECP.756104JS	199A/301.2	65	音	125	0		30%	•	0002	9	0003
Inductor         L19 Lenox Fugle         RR10         217A/7.7-9         65 mW         125         0         <1         30%         <.1         0002         6           Inductor         L19 Lenox Fugle         RR10         217A/7.7-9         65         <1		R26		RCR05G303JS	1994/301.2	65	Mu	125	0		30%		000	٧	0003
Inductor         L19 Lenox Fugle         RR10         217A/7.7-9         65         95         70%         20%         2         1           Transformer         T7         Cin. Llec.         217A/7.7-9         65         85         80%         2         1.5           Diode Pin         CR24 Hew Pac.         RP5082-3168         217A/7.4-11         32 m/s         250         0         1.4         30%         6.0         1.5           Transistor         Q3         511conir         217A/7.4-13         37 m/s         400         0         1.5         90         1		R27		RCR05G303JS	1994/301.2	65	ΜII	125	Û	را دا	30%		0007	9	0003
Transformer       T7       Cin. Llec.       217A/7.7-9       65       207       2       1.5         Diode Pin       CR24 Hew Pac.       RP5082-3168       217A/7.4-11       .32 m/s       250       0       1.4 307       <.01 269	Inductor	119	Lenox Fugle	TR10	217A/7.7-9	65					30%		.2	1	90
Transformer       T7       Cin. Llec.       217A/7.7-9       65       30%       .2       1.5         Diode Pin       CR24 Hew Pac.       RP5082-3168       217A/7.4-11       .32 mW       250       0       1.4       30%       <.01       .269       1.5         Transistor       Q3       511fconir       0320       217A/7.4-13       .37 mW       400       0       .15 30%       .05 608       1		118	Lerox Fugle	FR10	217A/7.7-9	65					20%		2	1	90.
Diode Pin       CR24 dew Pac.       HP5082-3168       217A/7.4-11       .32 m/s       250       0       1.4 30%       <.01 .269       1.5         Transistor       Q3       511fconir       #320       217A/7.4-13       .37 m/s       400       0       .15 30%       .05 608       1	Transformer	T.7	Cin. Llec.		2174/7,7-9	65					30%		2	1.5	6
Diode Pin         CR24 dew Pac.         HP5082-3168         217A/7.4-11         .32 mW         250         0         1.4 30%         <.01 .269         1.5           Transistor         Q3         511fconir         #320         217A/7.4-13         .37 mW         400         0         .15 36%         .05 608         1		T8			217A/7.7-9	65					30%		2	1.5	80
Transistor Q3 5111conir 1320 217A/7.4-13 .37 mw 400 0 .15 30% .05 608 1	Diade Pin	CR24		IP5082-3168	2173/7.4-11	.32	J.	250	0		30%	•	269	1.5	1210
֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜		93	Siliconir	0320	217A/7.4-13		34	007	0	5	30%	.05	608	-	1874

DATE 25 June 1973 TEMP.

Preselector, Band II Manpack FUNCTIONAL BLOCK PAGE 3 OF

DRAWING NO. 377450, Tuner

x10-5 TOTAL FAILURE RATE . 061140

DEGREES CENTIGRADE

-18-

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36708 3 3	1.5		-+		1	j							
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APPLICABLE.	2178/7.4-13									·			
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MANUFAC.				-									
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DEGREES CENTIGRADE TOTAL FAILURE RATE . 022995 AT Manpack

DATE 25 June 1973 Plaselector, Band II

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FUNCTIONAL BLOCK

377450, Tuner

DRAWING NO. PAGE 4 OF

71	472 RESS	S ANALYS	rs; s												
FR	W.B. G. M.	rosmus	JOS. ASPANSAC.	TANO	PALICABLE.	20 .00	10 15 15 15 15 15 15 15 15 15 15 15 15 15	A373WAP1		TN305310	SWIT ARISON	3 12/2 11/2	0		407014 3
	1 7	CAR	<u>ا</u> ا	Pay \$10H	2174/7 6.33	6.5	8	& E	{		٥		/   8	1	1,000
		870	JFD	DV510H	2174/7.6-33	65	VO 1 F.	100	6	-	303	1	900	•	00:17
		C49	JED	DV510H	217A/7.6-33	6.5	Volts	100	0	17	305	۹ ۹	000		7,000
		C56	JED	DV510H	217A/7,6-33	65	volts	100	O	.1	30%	\ \ \	600		7007
		<b>C</b> 7.7		CKR05BX102XR	198B/1001,2	65	Volte	200	06	06	1007	.4.		1	0011
		C50		1501-36-71	2174/7.6-25	65	volts	100	0	₹*	30%	1. >	0000	٠	0000
		C51		CKR05BX102UR	1988/1001.2	65	volts	200	60	96	1001	7*	0000	r	0011
		C52	•	CKR05BX102UR	1983/1001.2	65	volts	200	15	15	1001	د 1	.0011	ord	.0005
		C53		CKR05EX102UR	1988/1001.2	65	volta	200	0	1,	30%	2.1	.0005	•	.0001
	Resistor	R28		RCR05G204JS	1994/301.2	65	mly.	125	<b>1</b> >	1 >	1001	1. >	5000	1	.0012
		R29		RCR05G302JS	1994/301.2	65	Mm	125	1 >	<b>1</b> >	100%	< .1	.0002	9	.0012
1		130		RCR05G304JS	1994/301.2	65	¥	125	4 1	<b>~</b> 1	1902	< .1	0000	9	.0012
		R31		RCR05G3C2JS	199A/301.2	65	產	125	< 1	1>	7001	4.3	2000	9	.0012
1		R32		RCR05G204JS	199A/301.2	65	.¥	125	7 1	<b>~</b> 1	2001	< .1	.0002	9	.0012
		R33		RCR05G303JS	199A/201.2	65	M	125	0	< 1	30%	2.1	.0002	9	.0003
	Inductor Re	170	Lenox Fugla	NB3.9	217A/7.7-9	65					307.		•2	1	90.
		171	Lenox Fugle	NR2.2	217A/7,7-9	65					30%		.2	1	•06
		122	Lenox Fugle	NR3.9	217A/7.7-9	65					30%		•2	1	90.
		L23	Lenox Fugle	NR2.2	217A/7.7-9	65					30%		. 2.	1	90.
		177	Lenox Fugle	NR10	217A/7.7-9	65					30%		.2	-	90

TOTAL FAILURE RATE .0320013 X10-5 DEGREES CENTIGRADE Preselector, Band III Manpack DATE 25 June 1973 FUNCTIONAL BLOCK

PAGE 1 OF 3 DRAWING NO. 377450, Tuner

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	.w.e		`	\	3 TB	40	`.	43		1/13	ON/	372	0		403
* rai	TARY	TOBRUS	MANUFA	TARY ALABEAN	Applica Splica	A. Great	SWAP &	O31 VA		053100 053100	ALPO	23418	2	. \	301
1	Inductor RF	1.25	Lenex Fugle	MRO.33	2171/7.7-9	65					30%		.2	1	90*
-		1.26		NR10	217A/7,7-9	65					30%		2	4	909
문	Transformer	<u>l</u> .	Cin. Elec.		217A/7.7-9	65					30%		7	7	90*
		T10	Cfn. Elec.		2174/7.7-9	65					30%		2.	-	90•
	Relay	5	Teledyne	421D-26	217A/7.10-5	65					39,		.0093	2.5	5 6900
	Diode Varac.			3215	Cin. Elec.	65					100%	4.1	\† -1		14
   		CR26		3215		65					1007	<.1	14		14
		CR27	C.D. Co.	3215	١.	65					100%	< .1	.14	•	14
		CR28	C.D. Co.	3215	ł I	65					100%	< .1	71.		.14
		CR29	C.D. Co.	3215		65					1007	c.1	,† 		.14
		CR30	CR30 C.D. Co.	3215	Cin. Elec.	65					100%	<.1	14		14
		CR31	CR31 C.D. Co.	3215	Cin. Elec.	65					100%	c .1	14	•	1.4
		CR32	C.D.	3215	Cin. Elec.	65					100%		.14	•	.14
	Diode Pin	CR33	Hew. Pac.	HP5082-3168	217A/7.4-11	.32	A	250	0	1.4	30%	٥. م	.269	1.5	1210
	Capacitor	C54		1501-36-53	217A/7.6-25	65	volts	100	٥	rud •	30%	2.1	.002	-1	9000
		C55		CKR05BX102KA	198B/301.2	65	volts	200	10	۲	100%	4	.0005	rt	,0005
		C57		CKR05BX102KR	1988/301.2	65	volts	200	0	5	30%	1.	.0005		.0001
		£53		CKR05RX102KR	1988/301.2	65	volta	200	0	5	367	コン	2000		0001
		C59		CKR05BX102KR	1988/1001.3	65	volts	200	0	5	305	7	2000	,-4	10001
		C60		CKR05BX102KR	1988/1001.4	65	volts	200	1.5	15	1007.	7. 2	.0005		.0005

TOTAL FAILURE RATE .1490075 X10-5

AT DEGREES CENTIGRADE

PAGE 2 OF 3 DRAWING NO. 377450, Tuner

Preselector, Band III Manpack

DATE 25 June 1973

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FUNCTIONAL BLOCK

•	2732 RESS		ANALYSIS			<u>'</u>								Ĭ,	
	.w.ø.				378	I	40	43.		1NS	ON,	30		· f	-10
R.	TAN PART	45	OBINS AJAUA AJAUA	A SA PARTE	APPLICA SOCIAL	_	SA SA SA SA SA SA SA SA SA SA SA SA SA S	SAPAME!		SIS3/NO	AND ALLA	553415 W 1470	0, 4	. `	30 B 4 \$
	Capacitor	C61		CKR05BX102KR	198B/1001.2		volts		1 1	96	100%	23.		1	0011
		3		CKR05BX102KR	1988/1001.2	65	volts	200	10	10	100%	7	0505	-	2000
	Resistor	R34		RCR05G204JS		65	MW	125	<b>6</b> 1	£ >	100%	1.	0002	و	001
		25		RCR05G302JS	199A/301.2	65	音	125	7	<1	1001	۸ .1	9002	9	0012
		R36		RCR05G202JS	1994/301.2	65	AG.	125	•	16	30%	2.1	0002	و	.00036
		5		RCR05G333JS	199A/301.2	65	TA TA	125	0	<1>	30%	7.7	0007	٥	.00036
-		R38		RCR05G104JS	1994/301.2	65	Min.	125	0	41	30%	١.	0002	٥	00036
		83		RCR05G303JS	1994/301.2	65	Ma	125	0	< 1.	30%	c .1	0007	9	96000
		R40		RCR05G302JS	1994/301.2	65	Min	125	< 1	717	100%	1. >	0002	9	6
	Inductor	127	Lenox Fugle	NR10	217A/7.7-9	65	Đị.	125		1.33	206		2	-	18
	Transformer	1	Cin. Elec.		2174/7.7-9	65					307		.2	1.5	g
		717	Cin. Elec.		217A/7.7-9	65					30%		,2		g
	Transistor	05	Sfliconix	U320	217A/7.4-13	.37	watte	3	0	.15	30%	0.		4	1824
77	SIENP Translator	90		JAN2N2907	217A/7.7-13	.228	音	400	0	9.	30.	10.		1.5	2299
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TOTAL FAILURE RATE .077899 X10-5

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PAGE 3 OF DRAWING NO.

FUNCTIONAL BLOCK Preselector, Band III Manpack

25 June 1973

DATE

Capacitor Nave	1343	`	\	3	4		\ \ \		1N.	SNI				40
pacitor whit	******	_	_		; `	_	\ '3\		` ?	,				1
pecitor		SONAS SONAS	A A A A A A A A A A A A A A A A A A A	Sal Jak	A. Gile!	3MAYA A	C3TAA		353170	(AA340	7100 23972	O' Y	. \	3011
	c16		CKR05BX102KR	198B/1001.2	65	volts	200	0	5	307	7	0005		00045
	517		CKR05BX102KR	1988/1001.2	65	volts	200	Û	2.5	30%	\ \ \ \	0002	1	00043
	C18		1501-36-58	217A/7.6-25	65	volts	001	0	2.5	206	۸.1	,002	-	0918
	C19		1501-36-55	217A/7.6-25	65	volts	100	0	rrd	206	١.٧	002	•-	0013
	C70		1501-36-60	217A/7.6-25	65	volts	1.00	0	2.5	206	1. 2	.002		0013
	C21		1501-36-71	217A/7.6-25	65	volts	100	0	a <b>-1</b>	706	L. 2	.002	1	0018
	C22	٠	1501-36-53	217A/7.6-53	65	volts	100	0	2.5	206	< .1	.002		0018
Resistor	R10		RCR05G202JS	199A/301.2	65	Ŋ.	125	0	10	206	<.1	.0002	. 9	00054
Inductor	1.8	Lenox Fugle	NK10	2174/7.7-9	65					206		,2	1	8
	1.9	Cin. Elec.		217A/7_1-9	65					90%		.2	, ,	18
	L10	Cin, Elec,		7.7	65					206		.2		18
Kixer	Ul	Relcom	Hed	7.4	65					206		5.06	4	.554
Connector	Pi.	Microdot	141-1005-0001	RADC II/191	65					206		.032	5.	0144
	P2	Атр	85930-4 8p	RADC 11/191	65					100%		.0029	Ţ-,	00145
	P3	Авър	85930-4 10p	RADC II/191	65					100%		.00326	•	00163
	P4	Microdot	141-1005-0001	RADC 11/191	65					30%		.032	•	0048
	P5	Microdot	141-1605-0901	RADC II/191	65					30%		.032	•	0048
	sistor ductor nnector	C20 C21 C22 tor R10 L2 L10 C11 C10 P1 P2 P2 P3 P4 P4 P4	C20 C21 C22 tor R10 L9 L9 L10 C11 C10 P1 P2 P3 P4 P4 P4	C21 1501-36-60  C22 . 1501-36-71  C22 . 1501-36-71  C22 . 1501-36-71  C22 . 1501-36-71  C22 . 1501-36-71  C22 . 1501-36-71  C21 . Elec. RCR05G2023  C10 Cin, Elec. RCR0  C10 Cin, Elec. RCR0  C11 Relcom RGD  C11 Relcom RGD  C12 RAD RS930-4 8p  P2 Amp 85930-4 10  P4 Microdot 141-1005-0  P5 Microdot 141-1005-0	tor R10	C20	C20 1501-36-60 217A/7.6-25 65 C21 1501-36-71 217A/7.6-25 65 tor R10 1501-36-53 217A/7.6-53 65 tor R10 RCR05G202JS 199A/301.2 65 tor L8 Lenox Fugle NR10 217A/7.7-9 65 L10 Cin. Elec, 217A/7.7-9 65 ctor Pi Microdot 141-1005-0001 RADC II/191 65 P3 Amp 85930-4 8p RADC II/191 65 P4 Microdot 141-1005-0001 RADC II/191 65 P5 Microdot 141-1005-0001 RADC II/191 65 P5 Microdot 141-1005-0001 RADC II/191 65	C21	C20	C20	C21 1501-36-60 217A/7.6-25 65 volts 100 0 1.5  C22 . 1501-36-71 217A/7.6-25 65 volts 100 0 1.5  tor R10 RCR05G202JS 199A/301.2 65 mW 125 0 10  tor L8 Lenox Fugle NR10 217A/7.7-9 65 mW 125 0 10  tor L9 Cin. Elec. 217A/7.7-9 65 mW 125 0 10  L10 Cin. Elec. 217A/7.7-9 65 mW 125 0 10  tor P1 Microdot 141-1005-0001 RADC II/191 65  P2 Amp 85930-4 8p RADC II/191 65  P3 Akp 85930-4 10p RADC II/191 65  P4 Microdot 141-1005-0001 RADC II/191 65  P5 Microdot 141-1005-0001 RADC II/191 65	C22	C21	C20         1501-36-60         217A/7.6-25         65         volte         100         0         .:.5         90%         c1         0.02         1.           C21          1501-36-71         217A/7.6-55         65         wolte         100         0         .:.         90%         c         1.002         1.           c22          1501-36-53         217A/7.6-53         65         mir         125         0         10         90%         c         1.002         1.           tor         I.B         Lenox Fugle         NRIO         217A/7.7-9         65         mir         125         0         10         90%         c         1.         1.           tor         I.B         Cin. Elec.         217A/7.7-9         65         mir         90%         c         1.         <

\_ X10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE . 513152 Manpack DATE 25 June 1973

FUNCTIONAL BLOCK Mixer and Connectors
PAGE 1 OF 1

DRAWING NO. 377450, Tuner

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TEMP.

٦	2712 TRESS		AN AL Y S I S				•								
	.w.8				3			1		1	2	3			
1	JAN 181	1	WUFACE WIDEACE	TA TA	Jeko's	10.00	10 A.	Y3L3in		NJJSJ.	NITAN	5536	0		10200
W.	ı	3	W	SW AS	88.88		AND	N. S. S. S. S. S. S. S. S. S. S. S. S. S.	\	340	100	XXS	1/4	•	301
	Capacitor	13		1501-36-60	217A/7.6-25		volts		0	~	80%	\ \ \ \ \ \ \	000	-	00100
		C2		1501-36-60	217A/7.6-25	65	volts		0	1	2006	7	000	-	9100
		63		CKR05BX103KR	193B/1001.2		volts	100	7	7	1007	1 '	0005	-	2000
		3		CKR05BX103KR	198B/1001.2	9	volts	Ì	s.	2	1		0005	-	0005
		5		CKR05BX103KR	198B/1001.Z	65	volte	100	5	2	+	' '	0005	-	0008
		3		CCR058X103KR	198B/1001.2	59	volts	100	5	ری	1007	'		-	0005
	Resistor	72		RCR05G123JS	199A/301.2	65	英田	125	41	6.1	1007	7	0002	9	0012
		R2		RCR05G393JS	1994/301.2	65	T.C.	125	< 1	77	100%	-	0000	9	0013
		83		RCR05G100JS	199A/301,2	65	Mil.	125	2.5	2.5	1007	-	0000	, ,	0012
	Inductor RF	3	Lenox Fugle	NR3.3	217A/7.7-9	65					1007		2	-	,
		1.2	Lenox Fugle	NR3.3	217A/7.7-9	65					100%		2	-	,
	Hybrid	HX1	Cin. Elec.	376259	USAECOM	65					1007		1.032	•	.032
		HY2	Cin. Elec.	376259	USAECOM	65					100%		1.032		033
		нүз	Cin. Elec.	376259	USAECOM	65					100%		1.032		032
		HY4	Cfn. Elec.	377668	USAECOM	65					100%		1.4385	•	4385
	Connector	Pl	Microdot	141-1002-0001	RADC II/191	65					206		032	2.	6144
		P2	Microdot	141-1002-0001	RADC 11/191	65					0		032	<del></del>	0
	Crystal Fil.	ELI		376270	2174/7-12-3	65					897		. 89		6052
		FL2		376252	217A/7.12-3	65					45%		68		306
	Hybrid	HYS	Cin. Flec.	376261	USAECOM	65					1001		1532	١.	1522

TEMP. DATE 25 June 1973
FUNCTIONAL BLOCK PASSESS TE N.

FUNCTIONAL BLOCK Receive IF Manpack

DRAWING NO. 377400 IS

TOTAL FAILURE RATE 60225 X10

AT\_\_\_\_\_DEGREES CENTISRADE

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	Z712 RESS		AHALYSIS													
	W.B		1		37	1		0		4	34	3%		1	1	10
76	340.	"Mi	JOBNA JOBNA	TAN	of Ica	S. Care	15 A.S.	031 313mg		182CE)	ALT AR3'S	55384 040 44	0	. \	3084	. Y . 2
	W Y				48,84	$\searrow$	20	**	. 1	*0	<b>NO</b>	5	ky .		°5	
	Hybrid	HX6	Cin. Elec.	376261	USAECOM	65					1007		.1532	•	1532	<del>                                     </del>
	Crystal Fil.	<b>H</b> 3		376270	217A/7.12-3	65					744		.68	•	2992	<del>-</del> -
				376251	2174/7-12-3	65			·		17		.68		9900	
		`		376251	217A/7.12-3	65					71		89.		0068	<del></del>
	Capacitor	72		CKR05BX103KR	1988/1001.2	65	volts	200	0	0	0		000	_	c	r
	Resistor	R4		RCR05G911JS	199A/301.2	65	mk,	125	1>	1>	:501	۸.۱	0000	4	70.13	r
		R5		RCR05G101JS	1994/301.2	65	Мп	125	<b>&lt;</b> 1	د ا	1001	<.1	0005	٥	0012	<b>Y</b>
		R6		RCR05G274JS	199A/301.2	65			10	5	100%	۲.۷	.0002	2	0012	<del>, -</del>
		R7		RCRJ5G274JS	199A/301.2	65			15	10	1001	4.1	0000	٤	0012	<del></del>
		R10		RCR05G151JS	199A/301.2	65			0	0	0	1.2	0005	9	0~	<del></del> -
	Inductor	L3	Cin. Flec.	377402	217A/7.7-9	65					100%		.2	1	7	1
		2	Lenox Fugle	NR82	217A/7.7-9	65					100%		.2	1	2	<del></del> -
		L5	Lenox Fugle	NR82	217A/7.7-9	65					100%		.2	1	. 2	
		1.6	Lenox Fugle	NR32	217A/7.7-9	65					1007		.2	1	ž	
		1.7	Cenox Fugle	NR82	217A/7.7-9	65					100%		.2	1	, 2	
		1.8	Lenox Fugle	NR82	217A/7.7-9	65					1007		•2	1	2	·····
		1.9	Lenox Fugle	NR82	217A/7.7-9	65					100%		.2	1	.2	<b></b> _
		110	Lenox Fugle	NR82	217A/7.7-9	65					100%		۲.	0,14	2	<del></del>
		iII	Lenox Fugle	NR82	2174/7-7-9	65					1007		.2	1	.2	
		L12	Lenox Fugle	NR82	217A/7.7-9	65					1007		2	-	,	

TOTAL FAILURE RATE .24708 X10-5
AT ... DEGREES CENTIGRADE

FUNCTIONAL BLOCK Receive IF Manpack

25 June 1973

DATE

TEMP.

DRAWING NO. 377400 IF

**-**25-

, 30° .4035 403984 A X10-5 1.5 31 1/2 BANTINA DEGREES CENTIGRADE TOTAL FAILURE RATE . 04035 01144 SSAUS <.01 300 uno 100% ONITARBADO ANJUSZINO AT O31 AS 4313MAPA Min JAPAL LABLE 217A/7.4-13 HERMON TANA Manpack 2N5652 Receive IF MAKE MANUFAC DATE JTRESS AMALYSIS TOBINGS **ELOCK** 0 u. O FUNCTIONAL 3m<sub>N</sub> Transistor 4414 1 'W. B. 4 2712 SIMPN

-26-

DRAWING NO.

•••	;	AESS ANALYSIS	YSIS												
	W.B.		· `		3784	l .	40	434.	i	LNGS	SNIT	322	1 0	1	10.7
"QL,	Jan A Mark	35	Jenus Jenus Jenus Jenus	JEWN YOUNG	Jak Spec		AT GROTH	SWA TED		53170	A JOO TO THE PARTY	23972	AA	. `	301
	Resistor	R11		RCR	199A/301.2	$\perp$	ME	125	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V 1	100%	4.1	0005	9	0012
		R12		RCR05G105JS	199A/301.2	65	Ma	125	< 1	<b>6</b> 1	100%	7.1	0007	9	.0012
		R13		RCR05G105JS	1994/301.2	6.5	Me	125	7	17	100%	4.1	0007	9	.0012
		R14		RCR05G105JS	199A/301.2	65	Mil	125	ر 1 ح 1	<b>1</b> >	100%		.0002	9	.0012
		R15		RCR05G105JS	199A/301.2	65	Min	125	7 7	<b>6.1</b>	100%	2.1	2000	6	0012
		R16		RCR05G105JS	199A/30L.2	65	ME	125	< 1	<b>61</b>	100%	1. >	0000	9	- 0012
		817	•	RCR05G105JS	1994/301.2	65	Mil	125	ر ۲ د ۱	1 >	1007	7.7	, 0002	9	0012
	Cesestor	8		CKR06BX104KR	198B/1001.2	65	volts	200	105	105	, ,	5,	.0015	ŧ	.0015
ŀ	LSI, CMOS	7.7		377670	US <b>AECOM</b>	65							3.7		3.7
	Hybrid	% 1		377671	USAECOM	65					100%		1,0368	. a	1.036
	MSI	f)		377669	USAECOM	65					2001		1.5	١	1.5
	Connector	P3	Атр	1-85930-1 31	P RADC, II/19	1 65					1007		.00732	ıc	78600
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TOTAL FAILURE	DEGR
TOTAL	AT
TEMP. CATE 25 June 1973	FUNCTIONAL BLOCK Band and Tuner Control Manpack

FUNCTIONAL BLOCK PAGE 1 OF

377400, IF DRAWING NO.

X10-5 RATE . 625054

DEGREES CENTIGRADE

-27-

•	.(12 ES	ESS ANALYSI	S I S													
	'W.				3700	"	35	43/	1	4N3O	SNIX	320	1 0		1091	18.4
WOL!	PARI NAME	enus .	MANUL	TAPA	Jags Spec.	A. CAROL	MANA	O31 Va	***	SZINO	A340	STARES TAN	NA.	. \	307 A	*301
	Capacitor	ប		MP 10	217A/7.6-81	65	volts	4	0	.1	206	.02	.001		0000	.ق. ا
I		C2		VK30BA472K	217A/7.6-57	65	wolts.	50	10	10	100%	-	.0065	1	.0065	γ
		3		VE30BA103K	2174/7-6-57	65	volts	50	10	10	1007		\$900	٦,	.0065	1
		S		S685R-10	217A/7.6-81	65	volts	35	12	12	1007.	4	.0027	ų	.0027	
		90		J226R-10	217A/7.6-81	65	volts	35	12	12	100%	·	.0027		.0027	<del></del>
		C7		J226R-10	217A/7.6-81	65	volts	35	12	71	2001	.34	.0027		.0027	<del>,</del>
		83		J226R-10	217A/7.6-83	65	volts	35	12	-3.2	1007.	•—	.0027	 	.0027	<del>,</del>
	Resistor	R1		RCR056274JS	199A/301.2	65.	War	125	.1	1.	1001		6302	9	.0012	<del></del>
		R2		RCE05G274JS	1994/301,2	65	Min.	125	.1	1,	1007	۷,1	. 0002	9	.0012	-
		R3		RCR05G274JS	1994/301.2	65	D) H	125	.1	1.	1001	<.1	.0002	9	.0012	<del></del>
		R4		RCR05G182JS	199A/301.2	65	Mar.	125	1.5	1. >	100%	1.7	.0002	9	.0012	
		R5		RCR05C514JS	199A/301.2	. 59	Au.	125	5*	.5	100%	<.1	0005	9	.0001	<del></del> -
		R6		RN55D	217A/7.5-27	65	i i	125	.5	.5	1007	د.1	7.	.03	.012	
		R7		RCR05G514.7S	1994/301.2	65	N.	125	.5	s.	1007	1.2	,0002	6	.0012	
		R8		RM55D	217A,7.5-27	5	Mu	125	.5	•5	1007.	<.1	7.	.03	.012	·
		RII		RCR05GXXXJS	199A/301.2	65	温	125	,1	1,	100%	<,1	\$000	9	.0012	<del> </del>
		R12		RCR05GXXXJS	1994/301,2	65	Αш	125	•1	-	100%	1,2	-0002	9	.0012	<del>,</del> -
		R13		RCR05GXXX1S	199A/301.2	65	ia.	125	-	-	-	< 1	.0002	5	.0012	<b>,</b> .
		R14		RCR05GXXXJS	199A/301,2	65	mW	125	.1			<.:	.0002	9	.0012	·
		RIS		RCROSGXXXJS	199A/301.2	65	3	125	_		1007	< ،	0005	9	.0012	,

TOTAL FAILURE RATE . 006199 X10-5
AT \_\_\_\_\_ TEGREES CENTIGRADE

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FUNCTIONAL BLOCK
PAGE 1 OF 2

DRAWING NO. 377500, Audio

25 June 1973

DATE

Receive Audio Manpack

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ر.		. `	- 1	9	L_	Lco	مل	Ŀ			٠	-	5.												1.	1
		X'5	1	• 0002	000	1,795		3.7		7:/	2.884	1,288	.0072											-		+
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	37815	1398	3	7787377	1994/301,2	TSAECOM	SAECOM	SAECOM	SAECOM	SAECOM		SAECOM	11/11									1,	-			
			18	7.4	199,	17SA	NCJ.	USA	USA	USA		-'[	P RADC			_	_			<del>,,</del>	_					
	\ \ \	MAN											3-2 30p					7								
		`	SCROS.	OCOURT !	SCR95G	29//9	377663	377664	377565	37.7666	177661	700//	2-85928-2													
	Ded C.	ign.			1	1	!		Ì					+			+	+	+			-	+		+	-
		Nay.				n. Elec.			a. Elec.	1. Elec.	Fibr.	.[														
	708/	Y,S	9	<u> </u>	1	ļ			Cin	Cia.	C.		T T	-		******************************	<u> </u>	+	+	-		-	+-	+	+	-
			R16	1	1	+	70	75	13	95	S2	ē	1	+	-			-	1	+		_	-	-	_	
,	3) 46	n,	itor							q		104	101													
4	؍ ،		Resistor		Hybrid		] ;	3		Hybrid		Connector	200													
		W.						T	T					T	1			T	1	+	_		<del> -</del>	+	+	7

TOTAL FAILURE RATE 1.51055 X10-5
AT DEGREES CENTIGRADE

FUNCTIONAL BLOCK

DRAWING NO.

25 June 1973

DATE

Receive Audio Manpack

301 0001 000 .0001 33554 17347 To 2 OF A ·₽ 3144 FAILURE 3,3554 .0002 1.7347 .0052 .001 01144 STAFESS •25 4 De real <.1 ONIT PASSOD 10% 101 103 192 100 2 20 INACSAINO 0 0 OFFE 125 125 A313MAPPA E. K 65 65 65 65 65 JAPOLICABLE 2174/7.6-81 1994/301.2 199A/301.2 USAECOM USAECOM HJEMIN RCR05CXXXJS TAPA F105R-10 RCR05G 376216 377667 MARK MANUFAC TRESS ANALYSIS 108Mus 010 G 3mn Capacitor 4414 Resistor Hybrid W. Wall · 2732

111

X10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE .050944 Transmit Audio Manpack DATE 25 June 1973

**-**30-

BLOCK

FUNCTIONAL BI

7	. (122 · ES	ESS ANAL	ANALYSIS											(	,
W.8 . W	'M'8 .			43,	378VS	1	40	4343	Į.	JANIZ	DN1J.	320	1 0		4070
MRI	WA STAN	45	THUS THUS	Show Albert	Jags 1 Jags	dre s	NAPA A	MARKA		4340	NA	3912	183	. `	301
-	Resistor	RIO		RCR07G562JS	1994/301.2		iğ.	250	0	2	102	7,1	0000	9	1000
+		R11		RCR07G750JS	1994/301.2	65°	TEFN	250	0	17	101	2.1	2000	9	000
1		R12		RCR07G750JS	199A/301.2	65°	Wm	250	0	, , ,	107	4.1	.0002	٥	0001
		R13		RCR076473JS	1994/301.2	65°	3	250	0	v	107		0002	9	0001
$\top$		R14		RCR076473JS	199A/301.2	65°	in in	250	0	1,	107		2000.	9	.00012
+	Capacitor	Ces		DM5C050DP	217A/7.6-21	65°	volte	300	0	15	107	۲.2	0003	1.4	0000
$\dashv$		546		DM5C390GP	217A/7.6-21	65°	volts	300	0	15	107.	<.1	.0003	1.4	, 0000
+		हैं		CKR05EX102KR	198B/1001.2	65°	volts	200	0	7	192	4.1	.00.05	1	0000
+		870		CKR05BX102KR	198B/1001.2	65°	volts	200	0	7		4.1	.0505	-	0000
+		670		CKR05BX102KR	198B/1001.2	65°	volts	200	0	7		<.1	.0005	<b>+4</b>	0000
+		C20		CKR05BX102KR	198B/1001.2	65°	volts	200	0	7	10%	د,1	.0005	1	0000
+	Inductor	1.25	Gin. Elec.		217A/7.2-9	65°					107		.2	-1	. 02
+		126	Cin. Elec.		2174/7.2-9	65°					107		2.	-~	. 02
+		1.27	Delevan	1025-32	217A/7.2-9	65°					107		2	_	.02
$\dagger$		L28	DeLevan	1025-32	217A/7.2-9	65°					101		27	_	20.
+	Transformer	7.4	Cin. Elec.		217A/7.2-9	65°	-				10,		2	1,5	.03
7	Diode Si	CRZ	Hew. Pac.	HP5082-2800	217A/7.4-11	. 228	音	250	0	<b>4</b> 1		<.1	.21	1.5	. 0315
+		CRR	Hew. Pac.		217A/7.4-11	. 228	iķi.	256	0	<1	107	4.1	.21	1.5	.0315
+	Connector	Pl		51-728-000-26	RADC II/191	65°					107		.032	.5	. 0016
-		P2		51-728-000-20	RADC II/191	65°					107		.032	. 5	9100.

TOTAL FAILURE RATE .. 0177084 X10"5

AT DEGREES CENTIGRADE

FUNCTIONAL BLOCK RF Power Detector MANPACK

DATE 25 June 1973

DRAWING NO. 377257, FILLER ASSEMBLY

-31-

£ . 4 . 30? ,00015 A. Feeton . 2 31 14 BUTTINS .0030 0114 SSAMIS 3 Dro ro 107 SNIT MAJOO LNAJSZINO PATED PARMETER to the to **6**2° JAPP! ICABLE MINNEER RADC II/191 TAPA MCDD1-95415-1.0 9p MARK MANUFACE AN ALYSIS TOGHUS **P3** \$5 3mn Connector TAPA 6 4

TOTAL FAILURE RATE . 0000154 x10"5	ATDEGREES CENTIGRADE

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Power Detector MANPACK

RF

FUNCTIONAL BLOCK

9

PAGE

Filter Assembly

377257.

DRAWING NO.

25 June 1973

7	ZIZ VESS	S ANALYSIS	rsis												
	.W.8		`		376		*	43.		1/13	ON/	370	. '	Į	45
MQ1	TAN WATE	108MLS	JOO.	A A A A A A A A A A A A A A A A A A A	APPLICA Sp. C.	K. S. S. S. S. J.	MAY	13MAANE		053170	TARISON TO THE PARTY	STATE STATE	N. 1.	.\	4 •30!
	Capacitor	c15		ATC100B4R3BRW	2174/7.6-59	<u></u>	volts	] "	1	7 7	3%	<.1 ×	.021	1	.0006
		C16		DMSC130DP	217A/7.6-21	65	volts	300	0	17	3%	د،1	.0003	1,4	. 0000
		c17		DM5C330DP	217A/7.6-21	65	volts	300	0	< 1	3%	<,1	. 0003	1, 4	. 0000
		C18		ATC10089R1BRW	217A/7.6-59	65	volts	300	0	7	37,	1,2	.021	ĭ	.0006
		<b>C19</b>		DM5C430DP	217A/7.6-21	65	volts	300	0	30	37.	٦,	.0003	l. 4	. 0000
		C20		DM5C101GP	217A/7.6-21	65	volts	300	0	30	3%	1.	. 0003	1.4	. 0000
		C21		DM5C910GP	217A/7.6-21	65	volts	300	0	30	3%	.1	. 0003	1.4	. 0000
		C22		DM5C910GP	217A/7.6-21	65	volts	300	0	30	3%	₹•	.0003	1.4	. 0000
		C23		DM5C330DP	217A/7.6-21	65	volts	300	0	30	3%	.1	.0003	1,4	. 0000
		<del>د</del> 8		CKR05BX103KR	198B/1001.2		volts	100	0	24	3%	.24	.0005	1	.0000
		C11		CKR05BX103KR	1988/1001.2	65	volts	100	0	77	3%	.24	,0005		0000
	Inductor	1.5	Delevan	1025-32	217A/7.7-9	65					3%		.2	7	900.
		7.6	Delevan	1025-32	217A/7.7-9	65					37,		.2	1	900.
		1.7	Delevan	1025-32	217A/7.7-9	65					3%		.2		900
		1.8	Delevan	1025-32	217A/7.7-9	65					3%		.2		900,
'		1.9	Cin. Elec.		217A/7.7-9	65					3%		.2		900.
		110	Cin. Elec.		217A/7.7-9	65					3%		.2	1	900.
	Relay	Кl		GB-831C-5F	217A/7.10-5	65					3%		101	2.5	0075
		K2		GB-831C-5F	217A/7.10-5	65					3%		101.	2.5	.0075
		C14		CKR05BX103KR	193B/1001.2	65	volts	100	24	24	1007	.24	0005	,-1	.0005

TOTAL FAILURE RATE . 0053021

DEGREES CENTIGRADE

Filter, Band I FUNCTIONAL BLOCK PAGE 1 OF 2

Manpack

DATE 25 June 1973

TEMP.

DRAWING NO. 377257, Filter Assembly

-33-

	SENT STATE STORY SEO	5 /5 2 /2 2 / 4 6		37 . 2 1 .006	37, .2 1 .006	K.1 .23 1.5	<.1	s 300 0 1 3% .1 .0603 1.4 .0000 3							
	3 JB V.	TAN SA SA SA SA SA SA SA SA SA SA SA SA SA	198B/1001.2 65 vo	217A/7.7-9 65			217A/8.4-11 .266								
AR AL YS1 S	يون .	Janan Janan	C42 CKR05BX103KR	Cin. Elec.	L12 Cin. Elec.										
MESS		JAMA TAME	itor			Diode Si CR		Capacitor Cl							

25 June 1973 DATE TEMP.

Filter, Band I Manpack FUNCTIONAL BLOCK

PAGE 2 OF

377257, Filter Assembly DRAWING NO.

.0032728

DEGREES CENTIGRADE

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		18 T 8	C 22	1.4 .000013	4 .0000	1.4 1.000013	1.4 .000013	1.4 .000013	4.	1.4 .000013	1.4 .000013	1 .000015	1 .000015	1 .006	1 .006	1 .006	1 .006	1 006	1 .006	2.5 .00757	2.5 .00757	1 .000015
	0	NA.	.021	.0003	. 0003	. 0003	.0003	.0003	.0003	.0003	. 0003	.0005	0002	.2	.2	61	.2	2	.2	. 101	. 101	.0005
		7 JO 12 PA 1	7.1	۲۰۱	4.1	۷.1	7.		-	٠.		.24	.24					_	_		_	.24
	SNIA	AA340	33.	3%	3%	3%	3%	37.	37	37.	3%	3%	37.	3%	37.	3,5	37.	3%	37.	8	37,	37.
	1N3C	)531NO	<u>k</u> 1	د ۲.	<b>6</b> 1	17	30	30	30	30	30	54	24			_		_				24
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	434	SAMPRA	\	300	300	300	300	300	300	300	300	100	100			-						100
	40	AT GROIT	volts	volts	volte	volts	volts	volts	volte	volts	volts	volts	volts					_				volts
			<b>↓</b> —	65	65		65	69 1	65		65	65	2 65	65	65	65	65	65	65	5 65		2 65
	3 TO 1	APPLICA SOFIC	2174/7.6-59	•	217A/7.6-21	217A/7.6-21	217A/7.6-21	217A/7.6-21	217A/7.6-21	217A/7.6-21	217A/7.6-21	1988/1001.2		217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.10-	217A/7,10-	198B/1001,
		TARA	ATC 1 OOR 3 RORBE	DM5C180DP	DM5C240DP	DM5C130DP	DM5C300DP	DM5C360DP	DM5C330DP	DM5C330DP	DM5C130DP	CKR05BX103KR	CKR05BX103KR	1025-32					1025-32	411D-26	4110-26	CKB05BV103KB
SIS		MANUFA							•					Delevan	Cin. Elec.		Cin. Elec.	Cin. Elec.	De <b>le</b> van	Teledyne	Teledyne	
ANALYSI		TOSMUS		C25	C26	527	C28	C29	230	C31	C32	63	C12	1.13	114	L15	116	117	118	К3	7%	67.3
212 s . ESS	·W.8	JWW LAND		Capaci Lox										Inductor						Relay	,	1 1 1 1 1 1 1
V		* MEST																				

er, Band II Manpack AT

FUNCTIONAL BLOCK Filter, Band II
PAGE 1 OF 2

DRAWING NO. 377257, Filter Assembly

TOTAL FAILURE RATE . 0057919 X10-5

AT DEGREES CENTIGRADE

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TEMP.

	4.30%	0103\$	01035	.000012	000013	·	_		<del> </del>	<u> </u>		_	<del> </del>	<u> </u>	<u> </u>		<u> </u>	Γ	Γ
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	3 10 to 10 10 10	12	12.1	.1	1,						_				_				
•	OPERATING	33,	3%	3%	37,										 	ļ 			_
	JAGDS31ND	<u>k</u> 5.	د 5	30	30				_										
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	MAN	1 1	Ä	volts	volts														
	10 . OHO?	266			65														
1	SPEC. ARLE	<b>`</b>	4-11	6-21	6-21					-							 		
	JAG	217A/7.4-11	217A/7.4-1	217A/7.6-21	217A/7.6-21										,•				
	4.30	<del>\-</del>	2	2	2										_				
	TARY	JAN1N4148	JANIN4148	DM5C300DP	DM5C100DP														
		JANI	JANI	DM5C	DM5C														
	MANUFAC.																		
1.5		ļ																	
AN AL YSIS	TOSMUS	CR2	CRS	c31 t	C32 1														
RESS !	34.	十							-						 				
	3MM	ode St		Capacitor															
21.23	W. 8 . ME	Diode		Cap											 				
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TOTAL FAILURE RATE \_0020726 \_\_ X10-5 DEGREES CENTIGRADE

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Manpack

Filter, Band II

FUNCTIONAL BLOCK

377257, Filter Assembly

DRAWING NO. PAGE 2 OF

25 June 1973

DATE

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·w.8		;		3		ł .	0		*		37.		Ì	7
JAN A ME	145	JOHNUS AS LANDER	TAP.C	PPI 1CABL	Que,	10 43 O	ST SIMP TED		WISCEN IN	MINAIG	25341 20 41	0	. `	2084
080	633		ATC100R2R0REU	2172/7 6-50	\	Q. 1.2.	\	.   <		2 2		y   5	-	2000
,	C34		DM5C130DP		9	volte	<u> </u>	0		3 6	1 1	. 0003	4.1	0000
	C35		ATC100B9R18RW	217A/7.6-59	65	volts	300	0	12	3,	×.1	. 021	_	, 00063
	36		ATC100B9R1BRW	217A/7,6-59	65	volts	300	0	2	3%	۸.1	. 021	_	. 00063
	C37		DM5C100DP	217A/7.621	65	volta	300	c	30	37.	-:	.0003	1.4	.0000
	C38		DMSCS10DP	217A/7.6-21	65	volts	300	c	30	2,50	٠.	. 0003	I. 4	00001
	623		DMSC470DF	217A/7.6-21	65	volts	300	0	30	3.		.0003	1. 4	. 0000 B
	070		DM5C470DP	217A/7.6-21	65	volts	300	0	30	37.	1.	.0003	1.4	00001
	747		ATC100B9R1BRW	217A/7.6-59	65	volte	300	0	30	3%	٠.	. 021		.0006
	C10		CKR05BX103KR	1988/1001.2	65	volts	100	0	77	37.	.24	0005		0000
	C13		CKR05BX103KR	1988/1001,2	65	volts	100	0	24	3%	.24	.0005	-	10000
Inductor	1.19	Delevan	1025-32	217.5/7.7-9	65					37		٥.	_	900
	120	Cin. Elec.		217A/7.7-9	65					3%		.2	_	900.
	121	Cin. Elec.		2174/7-7-9	65					37.		.2	-	,006
	1.22	Cio. Elec.		217A/7.7-9	65					3%		61		.006
	L23	Cin. Elec.		21/A/7.7-9	65					37.		2	-	900.
	124	Delevan	1025-32	217A/7.7-9	65					3%		??	_	900.
Relay	K5	Teledyne	4110-26	2174/7,10-5	65					37.		101	2.5	.00757
	Κέ	Teledyne	4110-26	2174/7,10-5	65					3.2		101	2.5	.00757
Capacitor	C44		CKR05BX103KR	198B/1001.2	6.5	VOLES	100	0	24	34	2,	2000	-	0000

DEGREES CENTIGRADE TOTAL FAILURE RATE . 005377 DATE 25 June 1973

Manpack Filler, Band III FUNCTIONAL BLOCK

DRAWING NO.

TEMP.

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2174/7.6-21 65 volts 300 0 1 37 c.1 .0003 1.4 .0000 3 2174/7.6-21 65 volts 300 0 1 37 c.1 .0003 1.4 .0000 3 2174/7.7-9 65 2174/7	2712 RESS ANALYSIS	ANALYSI	<b>-</b> i													
217A/7.6-21 65 volts 300 0 <1 37 <.1 0003 1.4 217A/7.6-21 65 volts 300 0 <1 37 <.1 0003 1.4 217A/7.7-9 65	SANDLE SONNERS SANDLE AS S	WANUFAC.	WANUFAC.	1410	MAN BER	3 Je V. J. Jac	· ·	No at	A37.2km		TNEOSENT	SNITA	3 10-10	0,	. 1	10700
217A/7.6-21 65       volts       30C       0       41       37       4.1       0003       1.4         217A/7.7-9 65       65       2       37       .2       1       .2       1         217A/7.7-9 65       65       37       .2       1       .2       1         217A/7.7-9 65       65       37       .2       1       .2       1         217A/7.4-11 .266 mA       75       0       5       37       .1       .2       1         217A/7.4-11 .266 mA       75       0       5       37       .1       .021       1         217A/7.6-59 65 volts       300       0       1       5%       .1       .003       1.4         217A/7.6-25 65 volts       300       0       30       3%       .1       .003       1.4         217A/7.6-25 65 volts       300       0       30       3%       .1       .0003       1.4	1tor C53 DM5C	DAISC	DS PACE	DM5C560D	, a	217A/7.6-21	\L_	volte	300	0	, <u>  1</u>	33,0		,   ĝ	1 .	
217A/7,7-9       65       37       .2       1         217A/7,7-9       65       2       1       .2       1         217A/7,7-9       65       2       37       .2       1         217A/7,7-9       65       2       37       .2       1         217A/7,7-9       65       2       2       37       .2       1         217A/7,7-9       65       2       2       37       .2       1       .2       1         217A/7,4-11       .266       2       5       37       .1       .23       1.5       .         217A/7,4-11       .266       2       7       0       5       37       .1       .001       1       .2       .1       .002       1.4         217A/7,4-12       .266       2       volts       300       0       37       .1       .0003       1.4         217A/7,6-21       65       volts       300       0       30       37       .1       .0003       1.4         217A/7,6-25       65       volts       300       30       37       .1       .0003       1.4 <th>C54 DM5C510DP</th> <td></td> <td>DM5C510D</td> <td>DMSC510D</td> <td>6</td> <td>217A/7.6-21</td> <td>9</td> <td>volts</td> <td>300</td> <td>0</td> <td></td> <td>37</td> <td></td> <td>0003</td> <td></td> <td>0000</td>	C54 DM5C510DP		DM5C510D	DMSC510D	6	217A/7.6-21	9	volts	300	0		37		0003		0000
217A/7,7-9 65	Inductor L34 Cin. Elec.	Cin.	- 1			217A/7.7-9	9					37.		.2		900
217A/7,7-9       65       37       2       1         217A/7,7-9       65       2       1       2       1         217A/7,7-9       65       2       37       2       1       2       1         217A/7,4-11       .266       mA       75       0       5       37       4.1       23       1.5         217A/7,4-11       .266       mA       75       0       5       37       4.1       .021       1         217A/7,6-29       65       volts       300       0       30       37       4.1       .0003       1.4         217A/7,6-25       65       volts       300       0       30       37       1.1       .0003       1.4         1       1       1       1       1       .0003       1.4 <td< td=""><th>L35 Sin, Elec.</th><td>cia.</td><td>Sin, Elec.</td><td></td><td></td><td>217A/7.7-9</td><td>65</td><td></td><td></td><td></td><td></td><td>37.</td><td></td><td>.2</td><td>1</td><td>900.</td></td<>	L35 Sin, Elec.	cia.	Sin, Elec.			217A/7.7-9	65					37.		.2	1	900.
217A/7,7-9       65       37       .2       1         217A/7,7-9       65       37       .2       1         217A/7,4-11       .266       mA       75       0       5       37       <.1	L36 Cin, Elec.	_	Cin, Elec,			2174/7.7-9	65					3%		2	1	900
217A/7,7-9       65       mA       75       0       5       37       6.1       28       1.5         217A/7,4-11       .266       mA       75       0       5       37       6.1       .23       1.5         217A/7,6-59       65       volts       300       0       1       5%       .1       .021       1         217A/7,6-25       65       volts       300       0       30       3%       .1       .0003       1.4         217A/7,6-25       65       volts       300       0       30       3%       .1       .0003       1.4         217A/7,6-26       65       volts       300       0       30       3%       .1       .0003       1.4	137 Cin. Elec.	_	Cin. Elec.			2174/7-7-9	65					39.		.2	1	900.
217A/7,4-11 .266 mA 75 0 5 37 <.1 23 1.5 . 217A/7,4-11 .266 mA 75 0 5 37 <.1 .23 1.5 . 217A/7,6-59 65 volts 300 0 1 37 .1 .021 1 217A/7,6-21 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-25 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-26 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-27 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-28 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-29 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-21 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-29 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-21 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 0 30 37 .1 .0003 1.4 217A/7,6-20 65 volts 300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L38 Cin. Elec.	Cfn.				217A/7,7-9	65					37.		2	1	900
217A/7,4-11 .266 mA 75 0 5 37 <.1 .23 1.5 . 217A/7,6-59 65 volts 300 0 1 5½ .1 .001 1 217A/7,6-21 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-25 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-25 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-25 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-26 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-27 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-27 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-28 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-28 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 0 0 30 3% .1 .0003 1.4 217A/7,6-29 65 volts 300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Diode Si CR3 JANIN4148		JANIN4148	JAN1N4148		217A/7.4-11	. 266	¥a	75	0	5	3%	•	23	1.5	9103
217A/7,6-59 65 volts 300 0 1 5% ,1 ,021 1 217A/7,6-21 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-25 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-26 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-26 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-27 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 0 0 0 30 3% ,1 ,0003 1,4 217A/7,6-28 65 volts 300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CR6 JANIN4148		JANIN4146	JANIN4148		217A/7,4-11	. 266	¥	75	0	'n	3%		. 23		.0103
65 volts 300 0 30 3% 1,4 65 volts 300 0 30 3% 1,4  65 volts 300 0 30 3% 1,4  66 volts 300 0 10 1,4  67 volts 300 0 10 1,4  68 volts 300 0 10 1,4  68 volts 300 0 1,4  69 volts 300 0 1,4  60 volts 300 0 1,4  60 volts 300 0 1,4  60 volts 300 0 1,4  60 volts 300 0 1,4  60 volts 300 0 1,4  60 volts 300 0 1,4  60 volts 300 1,4  60 volts 300 0 1,4  60	Capacitor C35' ATC10GBSROBRW		ATC100B8RC	ATC100BSRC	BRW		65	volts	300	0	1	3%	,1	.021	1	9000
-25 65 volts 300 0 30 37 .1 .0003 1.4	C37* DM5C130DP			DM5C130DP		217A/7,6-21	65	volts	300	0	30	3%	1	.0003		0000
	C41' DM5C100DP		DM5C100DP	DM5C100DP		217A/7.6-25	65	volts	300	0	30	3%	.1	.0003	1.4	0000
						,•										
					-											

Filter, Band III Manpack DATE 25 June 1973 DRAWING NO. 377257, Filter Assembly

FUNCTIONAL BLOCK PAGE 2 OF 2

TEMP.

TOTAL FAILURE RATE . 6051382 X10-5 DEGREES CENTIGRADE

4	2712 STRESS	S ANALYSIS	rsis												
	.W. 8				376	\'\'		83		IN	ON.	30.			4
76	JAN.	108hu.	JON TOOL	TANG	DELICAL PRICAL	8'3' GUO'	I SWA	Q3L		305317	TAR390	253913	0	. 1	3004 \$
	I		*	W	5 24	2	20	<b>b</b> ø	. 1		4		y	ı	
	Capaciter	13		CKR05bX103KR	198B/1001.2	65	volts	200	0	3	10%	1	.0005	1	.0000
		C2		CKR05BX103KR	1988/1001.2	65	volts	100	0	24	102	24	.0005	1	.0000
		C3		CKR06BX105KR	198B/1001.2	65	volts	20	0	12	102	.24	.0005	ï	.0000
		2		CKR06BX105KR	198B/1001.2	65	volts	50	0	24	192	48	,0013	1	1000
		S		DMSC101JP	217A/7.6-21	65	volts	300	0	10	10%	7	. 0003	1.4	00000
		C5		CKR06BX334KR	198B/1001.2	65	volts	50	0	10	10,	.2	.0005	1	.0000
		C7	•	CKR05EK103KR	198B/1001.2	65	volts	100	0	24	102	.24	.0005	1	0000
		C51		DMSC101GP	217A/7.6-21	65	volts	300	0	<b>6</b> 1	10%	< .1	.0003	1.4	0000
		<b>c5</b> 2		DM5C181GP	217A/7.621	65	volts	300	0	< 1	10%	<.1	. 0003	1:4	0000
		c53		CKR05BX103KR	198B/1001.2	65	volts	100	0	24		.24	.0005	ų	0000
		C54		CKR05BX103KR	198B/1001.2	65	volts	100	•	0	%0	0	.0005	1	0
		C55		CKR05BX103KR	1938/1001.2	65	volts	100	0	24	10%	• 24	.0005	Ţ	0000
	Resistor	18		RCR07G104JS	1994/301.2	65	ΜW	250	0		102	<. 1.	.0002	9	.0001
		R2		RCR07G300JS	199A/301.2	65	ΜM	250	0	12	107.	.1	.0002	9	.0001
		R3		2 ohm 54	217A/7.5-25	65	ME	500	0	130	0 10%	.26	. 19	.03	.00057
		R4		RCR07G752JS	199A/301.2	65	.' <u>≜</u>	250	٥	3	10%	۲.	.0002	9	.000
		32		RCR07G252JS	199A/301.2	65	Δ <u>H</u>	250	0	< 1	10%	۲.1	.0002	9	.0001
	Inductor	171	Ferroxcube	VK200-2074B	217A/7.7-9	65					107.		. 2	1	.02
		1.2	Cin. Elec.		217A/7.7-9	65					10%		.2	1	. 02
		1.3	Ferroxcube	VK2CO-20/4B	217A/7.7-9	65					10%		.2	1	.02

TOTAL FAILURE RATE .. 0061656 X10-5 DEGREES CENTIGRADE Manpack DATE 25 June 1973 Power Amplifier

FUNCTIONAL BLOCK Power Amplifier
PAGE 1 OF 3

DRAWING NO. 377255, Power Amplifier

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TEMP.

~	-712 ESS	S ANALYSIS	7515													
N	. B. M.	106 M	MUFAC.	438M	JAN SI	10 00	3, 43	\$313mm		TW3OENT	3NI JANS	3000	1		4031.59 40.31.59	8.
2		5	4	CA S	22 24	<b>8</b> 2	A A A	/ ex /		8	70	is	ky .		O.J.	
	Inductor	3	Ferroxcube	VK200-20/4B	217A/7.7.9	65					10%		.2	~	.02	<b>1</b> —
+		1.29	Cin. Elec.		217A/7.7-9	65					10%		.2	-	.02	<del>-</del>
+		130	Cin. Elec.		2174/7.7-9	5.5					107.		.2	-1	.02	
+		131	Cin. Elec.		217A/7.7-9	5.5					10%		.2	1	.02	1
		132	Cin. Elec.		217A/7.7-9	65					10%		.2	1	.02	, <u>.</u>
1	Transformer	Ţ	Cin. Elec.		217A/7.7-9	65					10%		.2	1.5	.03	T
+		T.2	Cin. Elec.		217A/7,7-9	65					19%		.2	i •	63	<del></del>
1		Т3	Cfn. Elec.		217X77.7-9	.428					10%		.347	1.5	03	<b>,</b>
	Diode Si	CR1		1N4148	217A/7.4-11	.428	H	100	20	20	10%	.2	.347	1.5	.0520	<del>,</del>
		CR5		1N4148	217A/7.4-11	65	4	100	0	0	0%	0	.20233	1.5	0	<del></del>
7	Hybrid	N1	Cin. Elec.	377686	2178 m	65					10%		.13961		.0333	<del></del>
		A2	Cfn. Elec.	377687	217B	65					10%		.032	-	.0911	
1	Connector	Pl	Microdot	141-1005-0001	RADC 11/191	65					107		.00516			·
+		74	Ашэ	85930-4 20 ptn	RADC 11/191	65					10%		.032	.5	0005	<u>∞</u>
+		<u>13</u>	Microdot	141-1005-0001	RADC 11/191	65					10%		00308	•	.00154	<del> </del>
+		P4		MCDD1-9P465~1, 9 pens	5~10 RADC 71/191	65					1007		.0001	'	.00001	1 <del>- 1</del>
7	Resistor	R6		RCR07 JS	199A/301.2	65	i di	250	0	10	107	1, 2	• 0002	9	.0001	
+		R7		RCR07 JS	199A/301.2	65	音	250	0	10	10%	<.1	• 0002	9	0001	الماسط
+		R3		RCR07G122JS	199A/301.2	65	ME	250	0	10	10%	<.1	0005	9	.0001	
-		R9		RCR076472JS	199A/301.2	65	Mm	250	0	10	10%	<.1	0005	9	0001	*(~

TOTAL FAILURE RATE . 0379438 X10-5 DEGREES CENTIGRADE

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PAGE 2 OF

FUNCTIONAL BLOCK

TEMP.

DRAWING NO. 377255. Power Amplifier

Power Amplifier Manpack

DATE 25 June 1973

4	Z712 .ESS	S ANALYS	7515										1		
	.w.8				376	1	8	43		41/4	SN.	32		1	**
**	191	TOWN	MUFA	SAME A	) 33 ( CA) 176	80.00	97	O3,	•	SSI	7 8 8 3 C	\$\$384 \$\$384	0	. •	2005
Q.		2	**	44	8 8	63/	A.A.	No.		<b>%</b>	20	S	<b>b</b> y <b>\</b>		25
	Resistor	R10		RCR076103JS	1994/301.2	65	),AEE	250	0	4	10%	<.1	0005	9	00012
		RII		RCR07G513JS	199A/301.2	65	A)II	250	C		: : :	4.1	0.005	9	00012
		R12		RCR07G513JS	1994/301,2	65	refs.	250	0	2	10.	<.1	0000	9	00012
	Inductor	133	Cin. Elec.		217A/7,7-9	65					10%		. 2	Н	.02
		134	Delevan	1025-32	217A/7.7-9	65					10%		.2	1	.02
		135		1025-32	217A/7.7-9	65					107.		. 2	1	.02
		137	•	1025-32	217A/7-7-9	65					0		.2	1	
SINH	Transistor	91		JAN2N2222A	217A/7.4-13	.228	Wizi	200	0	.1	10%	۲.۶	210	1.5	.0315
	Hybrid	5	Cin. Elec.	377688	USAECOM	65					107		1972	-	01972
	Connector	25	Microdot	141-1005-0001	RADC 71/191	65				1	;		.032	.5	0016
		<b>P6</b>	Microdot	141-1005-0001	RADC 11/191	65					10%		.032	.5	.0016
1		P7	Selectro	51-751-0000-2	. RADC II/191	65					107.		.032	.5	.0016
		ري وي	Selectro	51-751-0000-20	RADC II/191	65					10%		.032	.5	.0016
	Resistor	R13		RCR07JS	199A/301.2	65	Mm	250	0	<b>4</b> 1	10%	<.1	7000	9	.0001
		R14		RCR07JS	1934/301.2	65	miv.	250	0	10	10%	<.1	.0002	9	.0001
-		R15		RCR07JS	199A/301.2	65	ig.	250	0	10	.10%	<.1	0000	9	00012
-	Relay	К7		GB-831C-SE	217A/7.10-5	65					100%		.301	2,5	,752
1		oc ⊻		GB-831C-SE	217A/7.10-5	65					100%		.018	2.5	.045
		К9		GB-831C-SE	217A/7.10-5	6.5					10%		301	2.5	0752

DATE 25 June 1973 FUNCTIONAL BLOCK Power Amplifier Manpack

377255. Power Amplifier DRAWING NO.

TOTAL FAILURE RATE . 099054 X10-5 DEGREES CENTIGRADE

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PAGE 3 OF

w	2712 RESS	S ANALY	7515	•												į
	.W.8					**		33		1 Ni	9,1/	370			14	\" :
***	JAN.	TOUNKS	MAUFA JOO	TAN	JAG LCAL	RY GROS	Lamer	031		1053176	TARBAT	253912 253912	0	. \	700	
	1			* *	V	*	'è	8	- 1		2		'	1		<b>\</b>
	Capacitor	ပ		Y104A-20	217A/7.6-81 6	65	volts	20	10	20	1007	.5	. 0065		. 0065	1
		ÇŞ		Y102A-20	217A/7.6-81 6	65	volts	20	10	10	1007	.5	.0065		. 0065	٠.,
		c3		B155A-05		2	volts	1.5	10	10	1007	.75	. 03		.03	
		3		B155A-05	217A/7.6-81 6	65	volts	15	10	01	100%	.75	. 03		.03	<del></del> -
		93		Y154A-05	2174/7.6-81 6	65	volts	20	10	10	100%	.5	.0065		.0065	
	Resistor	R1		RCRO5 JS	199A/301.2 6	65	済	125	< 1	< 1	1007	4.1	.0002	9	.0012	
		R2		RCROS JS	199A/301.2   6	65	riji.	125	د ۱	<b>c</b> 1	1007	4.1	.0002	9	.0012	<u></u> ,
	Inductor	1.1	Lenox Fugle	NR-22	217A/7.7-9	65					1007		.2	1	2	١
		97	Lenox Fugle	NR-22		65					1007		ç.	1	. 23	
		L?	Lenox Fugle	NR-3.9		65					1007		.2	1	.2	- /-
		1.8	Lenox Fugle	NR-12	217A/7.7-9	65					100%		. 2	1	c2	/
		F3	Lenox Fugle	NR-22		65					100%		.2		- 2	
		110	Lenox Fugle	NR-10	217A/7.7-9 (	65					107		2.		. 02	۱ 
		111	Lenox Fugle	NR-3.3	217A/7.7-9	65					13,		. 2	_	.02	<u> </u>
	Transformer	Ţĵ	Cin. Elec.	377354	217A/7.7-9	65					1007		-5	1.5	e.	<del></del>
		12	Cin. Elec.	377355	2174/7.7-9	65					1007		.2	1.5	65	<del>-                                    </del>
		Т3	Cin. Elec.	377353	217A/7.7-9	65					1007		.2	1.5	8	<del></del>
i		7.4	Cia. Elec.	377355	217A/7.7-9	65					1007		. 2	1.5	မ	- '
		7.5	Cin. Elec.	377352	217A/7.7-9	65					100%		.2	1.5	6.	···
		T.6	Cin. Elec.	377355	217A/7 <sub>2</sub> 7-9	65					1002		2	12	8	· · ·

DEGREES CENTIGRADE TOTAL FAILURE RATE . 29219 AT Manpack DATE 25 June 1973 RF Modulator FUNCTIONAL BLOCK

377350, Synth/RF Modulator PAGE 1 OF 4 DRAWING NO.

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TEMP.

1	र्याह	S ANALYSIS	SIS	•											
	.w.8		•		376	1	*	43		1N	SN,	370.	L		40
	344	708m	JOE JOE	TAI	1 (CAL	87. W	I SWY BY	Q3 <sub>4</sub>		12531	7 893'	55384 5 4		. \	4 -30
W.	<b>*</b>	is	Thy .	na va	AR SAN	25	NA A	10		10	20	6)	4		2.2
	Transformer	1.1	Cin. Elec.	377356	217A/7.7-9	65					107		.2	1.5	. 03
	Hybrid	HY2	Cin. Elec.	377677	USAECOM	65					1007		2,1994		2,1994
		HY4	Cin. Elec.	377675	USAECOM	65					33%	·	1504		0501
		HYS	Cin. Elec.	377575	USAECOM	65					337		1504		.0501
		нүб	Cin. Elec.	377675	USAECOM	65					33%		.1504		0501
		HY7	Cin. Elec.	377676	USAECOM	65					1007		1932		.1932
	Capacitor	C15		Y474A-20	217A/7.6-81	65	volts	10	5	2	1007	.5	.0065		.0065
		C16		CKR05BX102KR	198B/1001.2	65	volts	200	5	5	1007	<.1	5000.	1	.0005
		C17		CKR05BX102KR	198B/1001,2	65	volts	200	5	5	1007	4.1	.0005		.0005
		C18		Y474A-20	2174/7.6-81	65	volts	10	5	5	33%	5.	. 0065		. 0022
		C19		Y474A-20	217A/7.6-81	65	volts	10	5	5	33%	•5	.0065		. 0022
		C20		Y474A-20	2174/7.6-81	65	volts	10	u)	5	337.	.5	.0065		.0022
	Resistor	R3		RCR05 JS	199A/301.2	65	· <u>·</u>	125	71	٨,١	1007	5.1	.0002	9	0012
		R.7		RCR05102JS	199A/301.2	65	Αm	125	د ۱	<b>c.</b> 1	1007	4.1	.000	9	.0012
		88		RCR05102JS	199A/301.2	65	P)(E)	125	د1	<b>41</b>	100%	4.1	.0002	9	0012
٠		R9		RCR05103JS	199A/301.2	65	МШ	125	<1	c1	1007	<.1	.0002	9	.0012
		R10		RCR05102 IS	1994/301.2	65	WII	125	د ا	4.1	1007	ر د ، ۱	.0002	9	.0012
		R11		RCR05103JS	199A/301.2	65	МE	125	<b>61</b>	< 1	1007	4.2	.0002	9	.0012
		R12		RCR05102JS	199A/301.2	65	Ŋ.	125	4	4	100%	۲°۶	0005	9	.0012
		R13		RCR05102JS	199A/301.2	65	Wm	125	4	4	100%	7.7	.0002	9	.0012

TOTAL FAILURE RATE .25966 XI

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FUNCTIONAL BLOCK

PAGE 2 OF

RF Mcdulator Manpack

DATE

TEMP.

DRAWING NO. 327350, Synth/RE Modulator

	'n	SS ANALYS!	YSIS													
	w.e				3	1						3				
<b>\</b>		<u></u>	\	43	7845		40	431		CENT	SNIA	کر	0		40.3	<b>₹.</b>
MRI	MAN MAN	45	JAN JANA	I A P A	JAAN JAAN	_	STATE OF THE STATE	O31 AS		SZINO	OPERA TO NO	7 NO	X3	. 1	307	301
	Resistor	R16		RCR05104JS	199A/301.2		1	175		7.	1000	1		- 1 - 0		\
	Int. Circuit	101	Plessey	376152	RADC 11/413	8 65					1004	j	7000	0	7100	
1	Exbrid	HY8		377679	USAECOM						1000		. 432		432	-
1	Resistor	RIB		RCR05 JS	1994/301.2	65	74	135	-		7001		0000		1560	1
1		R19		RCR05 JS	1994/301.2	65	A P	125	1.2	2	1004		7000	١	7100	<del></del>
1	Connector	1 <u>1</u>	Алпр	85930-4 20p	RADC 11/191						1001		.00516	2 6	00258	<u> 1 oc</u>
+		22	Mcrodot	141-1005-0001	_	65					100		039	1	o is	<del>, ]</del>
+		13	Microdot	٠	RADC II/19L	65					1000		. 032	.5	910	_
+	Transformer	Τε		377357	217A/7.7-9	65					103		2	5	3	<del></del>
+	Diode, Var.	CRI		DKV6523B	Cin, Elec,	65					100		71		7	<del>,</del> -
$\dagger$		CR2		DKY6523B	Cip. Elec.	65					100		14			<del>-,</del>
$\dagger$		CR3		DKV6524B	Cin, Elec.	65					1007		14		14	<del></del>
+		CR4		DKV6524B	Cin. Elec.	65					100%		77		14	<b>-</b>
$\dagger$		52		DKV6524B	Cin. Elec.	65					1002		1=		71.	<del></del>
+		CR6		DKV6524B	Cin. Elec.	65					100%		71		14	<del>-,</del>
+		CR7		DKV6524B	Cfn. Elec.	65					100		7,1		7:	<del>,</del>
+		CR8		DKV6524B	Cin. Elec.	65					1001		72		7	<del></del>
+		CR9		DKV6524B	Cfn. Elec.	65					1001			T		- <del></del> -
+		CR10		DKV6524B	Cin, Elec,	65					1001		<b>+</b> -		<u>.</u>	<del></del>
-		CR11		DKV6524B		65					100		<u> </u>		± .	~- <b>,</b>
									•	-		-	77			_

TOTAL FAILURE RATE . 219613 X10.5
AT DEGREES CENT: GRADE

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FUNCTIONAL BLOCK

PAGE 3 OF

DRAWING NO. 327350.

RF Modulator Manpack

DATE 25 June 1973

•		• •			``	'3.		\ (3)	`\ '\	4	4	`
SIM'N MELL	108mus	MANUFA	MANA	Spirit Ca	odiej.	3mov.	QZ	783d0 0531NO	ONE STATE	SC AND	SALUKA	1084 X
Made Var.	CR12		DKX'6	Ctr	35	-			100%	╄╼╼╅	.14	14
							_			+	+	$\dashv$
											+	$\dashv$
						-	_	_		-	+	-
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Manpack RF Modulator

FUNCTIONAL BLOCK PAGE 4 OF

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377350, Synth/RF Modulator DRAWING NO.

DEGREES CENTIGRADE

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					\$0	,	43	\	113	SNI		0		103
JAN JAN	108mus	MANUFA	TARY MANBER	APPLICA SPEC.	A. GREAT	3110000	OBLYS	253170	A4340	TUD		X.	. \	A Fol
	15	5	Y104A-20	ᢇᠴ	65	volts	20	2	101	1003	.5	. 0065		.0065
Capacitos	1		₩±04A-20	217A/7.6-81	65	volts	20	15	15	1002	.75	.03		.03
	3 8		Y104A-20	217A/7.6-81	65	volte	20	15	15	1007	.75	.03		:03
	610		Y104A-20	217A/7.6-81	65	velte	20	10	10	100%	5	.0065		.0065
Restator	84		RCR05GJS	1994/301.2	65	WE	125	73	2	1007	7.7	.0002	9	.0012
	25		RCR05G101JS	199A/301,2	65	Au	125	22	10	1002	2.1	.0002	9	.0012
	28		RCR05GJS	1994/301.2	65	TO MOT	125	-1		1007	7	0002	9	2001
	100		RCR05G104.1S	1994/301.2	65	Mu	125	7	1	1003	4.1	.0002	9	.0012
Inductor	1.2	Lenox Fugle	NR22	217A/7.7-9	65					1002		2.	-	67
	1	Lenox Fugle	NR22	217A/7.7-9	65					1007		.2		2.
Ctremtr	<u> </u>	CTS Krights	376153 TCX0	RADC 11/413	65					1007		.3456		.3456
	<u> </u>			USAECOM	65					1000		3.7		3.7
Resistor	R20		RCRO5 JS	199A/301,2	65	9	125	* 7		1003	4.1	.0002	و	.0012
Capacitor	3			217A/7.6-81	65	volta	20	1.0	10	100%	ĵ.	. 0065		. 0065
	C12		G106A-20	217A/7.6-81	65	volte	15	5.6	5.6	1007	.37	.003		.003
	613	•	S685A-20	217A/7.6-81	65	volta	35	20	20	1007	.57	.011		.011
	71.0		V104A-20	217A/7.6-81	65	volta	20	15	15	1007	. 75	. 03		.03
	5		Y104A-20	217a/7.6-81	65	volts	20	10	10	1007	45	.0065		.0065
	, ,		00 4 /0 648	10 7 1/1/10	5.5	71.5.	30	4	<b>u</b>	1000	7.5	033		.03

x10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE . 46116

> Synthesizer Manpack 377350, Synth/RF Medulator FUNCTIONAL BLOCK PAGE 1 OF 2 DRAWING NO.

DATE 25 June 1973

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27.2	1	AESS ANALYSIS	YSIS											1	
W. 8 . W.	34 18	13	Wed.	16	1 CABLE	8	40 43	\$3L3W	{	INJUS:	SNITAG	300	1		20.7.01
WELL .	ma va	25	- 1		387.88 48.88	NO.	PARA	BING		340	MA	1912	(A)	•	301
3	Capacitor	C23		X103	217A/7,6-81	99	volts	, ,	10	10	1001	.5	.0065		.0065
Re	Resistor	R14		RCR05G104JS	1994/301.2	65	语	125	7	;	1000	<.1	0000	9	0012
		R15		RCR05G104JS	199A/301.2	65	i A	125	<.	<1	1001	7.7	0000	9	0013
Z.	Inductor	2	Lenox Fugle	NR22	217A/7.7-9	65					1007		27.	1	2
		1.5	Lenox Fugle	NR22	217A/7,7-9	65					100%		.2	-	2
H	Hybrid	HY1	Cin. Elec.	377678	USAECOM	65		,			1000		3016		301
Ca	Capacitor	C24	Comp. Inc.	S156R-20	217A/7.6-81	65	volts	20	10	27	100%	5.	2900	•	0065
-		C25	Comp. Inc.	S156R-20	21.A/7.6-81	65	voits	20	10	10	100%	5.	0065		0065
+		C26	Comp. Inc.	L336R-20	217A/7.6-81	65	volts	70	10	10	100%	]	.0065		0065
+		C27	Comp. Inc.	L336R-20	217A/7.6-81	65	volts	20	10	10	100%	2.	.0065	-	.0065
+		070	Comp. Inc.	L336R-20	217A/7.6~81	65	volts	20	10	10	100%	5.	.0065	·	0065
-		C29	Comp. Inc.	L336R-20	217A/7.6-81	65	volts	20	10	10	100%	3.	5900	•	.0065
		C30	Comp. Inc.	S226R-20	217A/7.6-81	65	volts	20	10	10	100%	.5	.0065	,	.0065
		C31	Comp. Inc.	S226R-20	217A/7.6-81	65	volts	20	10	10	100%	.5	.0065	٠	0065
		97	Cin. Elec.	55017-AS	217A/7.7-9	65				-	100%	•	7		2
•		ĽĴ	Cin. Elec.	CF101Q1	217AY7.7-9	65					100%	-	-2	-	2
+													-		
-															
								<del> </del>	-	<del>                                     </del>		T	<u> </u>	$\dagger$	
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TOTAL FAILURE RATE . 22525 X10
AT DEGREES CENTIGRADE

FUNCTIONAL BLOCK

DATE 25 June 1973

AL BLOCK Synthesizer Manpack

DRAWING NO. 377350, Synth/RF Modulator

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4 301	0019	.0065	.3495	00312	3465	35	35	35	35	035	<u> </u>			1	Γ	<del> </del>	T	1-	Γ	Τ
101014 \$	\- \- \- \-	0.		00.	15.3	.035	.035	.035	.035	.03	_	-	_	_		-		_		<u> </u>
	] '		1,5	4 .5	3465-	ı	è	-		•										
01,14		.0065	.233	.0062	15,34	7.0	7.0	7.0	7.0	7.0										
370.58	.25	.5																		
3 D. D. AL NO	1001	1007	1007	1001	100%	.5%	5,	25.	57,	.57.					-					-
OPERATING	S											-			·				-	-
OUIESCENT		10														-			<del> </del>	
A373%	20	20	75												-				<del> </del>	
R373WARA	volts	volta	¥																	
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APPLICABLE SPEC, CABLE	217A/7.6-81	2174/7.6-81	217A/7.4-11	RADC 11/191	USAECOM	217A/7.12-3	2174/7,12-3	217A/7.12-3	217A/7.12-3	217A/7,12-3										
TANG	U103R-10	U104R-10	JANIN4148	MCDD1-25P6A1	377691	376048	376048	376048	376048	376048										
JOS JOS JOS JOS JOS JOS JOS JOS JOS JOS				Microdot			٠													
108MS	CI	<b>C2</b>	CRI	14	UI	p51	D52	533	D54	055										
W.B. B.W.	Capaciter		Diode Si	Connector	Hybrid, LSI	Pin Light														
TRI.								- 5								,				

ì		
[une 1973	Manpack	
25 Jun	Control	
DAIR	Frequency Control	
	BLOCK	•
I EMP.	FUNCTIONAL BLOCK	

TOTAL FAILURE RATE 1.58825 X10-5
AT\_\_\_\_ DEGREES CENTIGRADE

PAGE 1 OF I DRAWING NO. 377100, Chassis

-48-

w.e		/ .		79			/		- "	3%			10,00
\	~/ _		4381	Ja voj	80.00	METER	_	ESCENT PATING	DAG	5536	0	. `	2003
E   25 M	25		PA NOW	345	103	AAA AAA		300	1 no	XIS.	K.s.		SOI .
Resistor, Var	R1	Allen Bradley	Allen BradleyGS1T048F103AA	217A/7.5-21	65 watts	ts 0.5	e j	.1	1007.	•2	. 1	10	1, 0
Switch	13		376027-1	RADCII-1217	65				1001		800	,	.008
	52		376027-2	RADC II- 1217	99				1007		0768	ı	.0768
	S3		376029	RADC IL 217	65				.5%		168	1	.00084
	24	Grayhf11	30-251B	RADC II-1217	65				100%		. 024	t	. 024
Connector		Microdot	142-1002-0051	RADC II-191	65				1007.		. 032	.5	.016
		Microdot .	142-1002-0001	RADC 11-191	65				107.		. 032	5	.0016
		Microdot	142-1002-0001	RADC 11-191	65				10%		. 032	٠ ئ	.0016
		Microdot	142-1002-0001	RADC II-191	65				10%	·	032	ς.	0016
		Microdot	142-1002-0001	RADC II-191	65				100%		. 032	.5	.016
		Microdot	142-1002-0001	RADC II-191	65				30%		.032	5	0144
		Microdot	142-1002-0001	RADC 11-191	65				10%		. 032	r.	.0015
		Microdot	142-1002-0001	RADC II-191	65				<b>2</b> 06	-	. 032	រប	0144
		Microdot	142-1002-0001	RADC II-191	65				90%		.032	.5	0144.
		Microdot	142-1002-0001	RADC 11-191	65				10%		. 032	ιω	.0016
		Microdot	142-1002-0001	RADC 11-191	65				103		. 032	.5	.0016
		Microdot	142-1002-0001	RADC 11-191	65	-			107.		. 032	လ့	.0016
			377103 335	RADC II-191	65				1007		00815	3	.00408
		L.T.T. Can.	ES-C-211489 5p	RADC II-191	65				100%		00238	ۍ.	.00119
			377141 6p	RADC II-191	65				1007		00258	.5	00129
		I.T.T. Can.	377103 33p ES-C-211489 5p 377141 6p		निन्न	<u> </u>	<u> </u>		<u> </u>	65 65 65	65 65 1007 65	65 65 1007 65	65     1007     00815       65     1007     .00238       65     1007     .00238

DATE 25 June 1973 TEMP.

FUNCTIONAL BLOCK Chassis Assembly Manpack PAGE 1 OF -49-

DRAWING NO.

TOTAL FAILURE RATE .12026

DEGREES CENTIGRADE --

	8.8	105.	016	13000	.0784	-	3495	0012	· · · · · · ·		<del>                                     </del>	<u> </u>		<del>                                     </del>	<u> </u>	1		<u> </u>	γ	<del>                                     </del>	
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ļ	3784	Jank Dygaz	II-191	RADC II-217	RADC 11-217	217A/7,12-3	217A/7.4-11	01.2				·						ļ			
		,aak	RADC 1	ADC I	ADC I	174/7	17A/7	199A/301.2													
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	•	JOHN JAY	n?		1029-	74		1033													
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AN AL YS! S		ioenus		\$5	98																
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		AAP NAME	Connector	ę,			40	Stor													
and and	·w.8.	" rei	Coun	Settch		Puse	Diode	Resistor		9											
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TOTAL FAILURE SATE , 054594

DEGREES CENTIGRADE

DRAWING NO. 377151

FUNCTIONAL BLOCK PAGE 2 OF -50-

Chassis Assembly Manpack

25 June 1973

DATE

1	*						5								35	, 10.		,			 ······································
	102	* # # * * * * * * * * * * * * * * * * *	.039	039	039	039	1001	3	~	6.	6504	455	542	087	\$67000	<u>.003024</u>					
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	134	4/20	8	8	8	26	-5	1007.	8	100%	5	100%	3	100%	.,	- 1			_		
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		_		18-9	5-81	5-81	5-81	6-7	6-2	7-9	(413	11-4	4-11	5-15	5-15	11/413				 	
		APPLICA SOLO	217A/7.6-81	217A/7.6-81	217A/7,6-81	217A/7.6-81	217A/7.6-81	217A/7.7-9	2174/1.7-9	217A/7.7~9	RADC 11/413	217A/7.4-11	2174/7.4-11	217A/7.5-1	217A/7.5-1	RADC II					
			1	21	21	21	21	21	21	21	BA	21	21	21	21	RA	-				
+	,	MIMBER	02	-20	-20	20	-20	,,	1-1	3-2	7	7	2	2ROOF	1R50F	5					
			L336R20	F305R-20	F305R-20	F3653-20	M106R-20	377556	377553-1	377553-2	377657	1N5802	1N5802	RWS1U2ROOF	RW81U1R50F	377656					
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		MANUFA	Comp Inc.	n Inc.	Comp Inc.	Comp Inc.	Comp Inc.	n. Elec.	n Elec	i. Elec.											
AN ALYSIS		100 Mus	රි	Сощо	င်၁	င်		Cin.	Cin	Cir.	Cfn.								-	_	
SS ANA	`	,	95	C7	<u>ფ</u>	60	C10	L3	7.2	£-1	22	CR3	CR4	R3	R4	23				-	
S		JANN JOYO'	tor					or	orner			\$1	51	or							
임	.w.8	0'	Capacitor					Inductor	Transformer		MS.I	apcid	Diode	Resistor		MSI					
٤٢		* KQI,							-									-			

TOTAL FAILURE RATE .3093974 X10-5

FUNCTIONAL BLOCK

DRAWING NO. 377550, Power Supply

4 & 5 Volt Regulators Manpack

25 June 1973

10t. A. A. 0115 6048 403084 A 403 493 .087 087 8 02 3 5 1.5 31 kg FAILURE 6048 0087 0087 269 01184 023 493 02 02 SS34/S .67 67 No de Care ٧ 1007 1007 1007 1001 100% 1007 100% 100% 1007 100% ONIT MAJAC .022 10 10 ۲. ANSOSSINO 0 ٧ 10 10 ,022° 24 <del>بر</del> V 0 OBLES 1.0 2,5 PARAMETER 15 15 volter volts volts Watts Watte empe amps Temp. 40 337 .32 65 65 65 65 65 65 65 65 Z IBYO THOW RADC\_11/413 217A/7.5-15 217A/7.5-15 217A/7.6-47 217A/7.6-81 217A/7.6-81 2174/7,4-11 217A/7.7-9 217A/7.7-9 217A/7.4 HERMON CL67BJ470MPG RW81U1ROOF RW81U1R00F JAN1N5802 JAN1N3611 TAPA 377555-2 377552 377658 MAEA MANUFAC Elec. Flec. Elec. Cfn. Cine <u>G</u>1. STRESS ARALYSIS 708MUS CR5 CR2 17 **R2**  $\mathfrak{S}$ S Ç Į 7 K Trensformer YWW Capaciter Si TAPA Resistor Inductor Diode Si Diode. "W.8. KSI

JI.

X10.5 DEGREES CENTIGRADE TOTAL FAILURE RATE . 23263.

> Volt Regulator 01 BLCC X 1 OF FUNCTIONAL PAGE

Power Supply

Manpack

25 June 1973

DRAWING NO.

-52-

1	**	202	ান	6	101	5			<del></del>		- 1	_				7						_
1	150.2	107	.0005	•0029	.0065	.0065	.03	.03	•03	.03	.011	900.	900	.3	۳.	۳.	۳.	63	•3	63	39	.39
		. ``			•	٠	•	•	•	,			1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
		N. S.	2005	•0029	.0065	.0065	•03	.03	.03	03	.011	900	900	2	-2	2	.2	7	.2	2	.26	26
			.24	87	3	5	.75	.75	-73	•75	.57	.84	*84								.03	03
	IN.	LINO	202	1001	1002	1002	1001	1007	1002	1007,	100%	1007.	100%	100%	100%	1007	100%	100%	100%	1001	100%	1001
	183	A4340	24 1	24 1	5	2	15 1	15	15	15 1	9	4.2	42			7					34	34
	1	253170	24	24	2	5	15	15	15	15	20	4.2	4.2								34	34
	43.	CH YE	100	50	10	10	20	20	20	20	35	22	50								200	200
	\	31/NA NA	olts	salev	volts	volts	volte	volts	volte	Volts	volts	volts	velts								温	
	10	\$3.0% \$4.0%	65 V	55 V	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	305	
		Specifical Specific	1988/1001.2	217A/7,6-81	217A/7,6-81	217A/7.6-81	217A/7.6-81	217A/7.6-81	21.74/7.6-81	217A/7.6-81	217A/7,6-81	198B/1001.2	1988/1001,2	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7_1-9.	217A/7.4-11	217A/7.4-11
		ABHOW	·	2				F105R-20	L1C6R-20	L106R-20	M155R-20	CKR05EX104KR	CKR05BX104KR	377555-3	377555-4	377555-4	377555-4	377555-5	377555-1	377554	58.0	SRO
SIS		MANUFA												Cin. Elec.	Cin. Elec.	Cin. Elec.	Cin. Elec.	Cin, Elec.	Cin. Elec.	Cin. Elec.		
AHALYSI		TOBRUS	22	C2	C11	C12	C13	c14	515	C16	C17	C18	<b>C19</b>	3	27	1.6	1.7	<u>ې</u>	[]	47.	CRÉ	CR.7
\$ 8 ZZ,	.W.B	WAN A MEN	Cepacitor											Inductor						Transformer	Diode St	
		Mai																				

15 Volt Regulator & DC/DC Converter Manpack DATE 25 June 1973 FUNCTIONAL BLOCK TEMP.

FUNCTIONAL BLOCK 15 Volt Regulator & DC/DC Converte

-53-

DRAWING NO. 377550, Power Supply

TOTAL FAILURE RATE . 30424 X10"

AT DEGREES CENTIGRADE

	34 C 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 067 278 1.5	.067.278 1.5	.04 .26 1.5	.04.26 1.5	100% < 1 .269 1.5 .403	.269	.6912	.00516 .5	.067	1007, .067,278 1.5 .416	1007, 07 318 1.5 .477	.301 2.5 .7525				
	ONI ESCENT OUI ESCENT	5 5 10	2	3	3 3 10	.0003 .0003	.0003 .0003		10	5 5 10	5 5 10	.00					
	SO GROSS	+	<del> </del>		307 mA 75	32 amps 1.0	32 Emps 1.0	65	65	334 mA 75	334 mA 75	39 amps 1.0	65				
	APPLICABLE.	ч				217A/7.4-11	_1	RADC 11/413 6	RADC_II/191 6	217A/8.4-11	217A/7.7-11	217A/7.7-11	217A/7,10-5 6				
	TARA	JANI	JAN1N4148	JAN1N4148	Jan114148	JAN1N3611	JAH1N3611	377659	20 <b>p</b>	JAN1N4148	JAN1N4148	JAN1N3611	432-3, 3KB				
AN AL Y SIS	SPABOL MANUFAC.		0	1.2	[3	41	15			0	11	9	Teledyne				
KESS	W.B. WAY	Diode Si CR8	CR9	CR12	CR13	CR14	CR15	MSI Z4	Connector P1	Diode CR10	CR11	CR16	Relay K1				

TOTAL FAILURE RATE .517328 15 Volt Regulator & DC/DC Converter Manpack DATE 25 June 1973 FUNCTIONAL BLOCK TEMP. -54-

PAGE 2 OF 2

×10.5 DEGREES CENTIGRADE

DRAWING NO. 377550, Power Supply

A . 4 . 30%	012	7270	2626	, <u>, , , , , , , , , , , , , , , , , , </u>	3186	₩	03086	.62824	.0035	0000	0000			<u> </u>	T-	T-	<del> </del>	Τ
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40 .040.1	Watts	Watts	Watts							Vol	Vol							
		53	65	65	65	65	65	6.5	65	65	65							
APPLICABLE.	217A/7.5-15 217A/7.5-31	2174/7.5-31	217A/7,5-31 217A/7,5-31	USAECOM	USAECOM	SAECOM	USAECOM	USAECOM	RADC11/191	198B/1001,2	198B/1001.2			•				
ABINON TORY		3082P-1-502	3082P-1-502 2082P-1-502		377654	377651	377652	327653	MM24-22PD250	CKR05BX561KR	CKR05BX562KR							
MANUFAC.	Bournes	Bournes	Bournes	CEC	CEC	CEC	CEC	CEC	,									
108Ms	R1 R2	<b>R</b> 3	R5 R6	нүт	нүг	нүз	HX4	HY5	I.d.	CI	C2							
JANA JOYO	Resistor Resistor	Resistor	Resistor Resistor	Hybrid	Hybr1d	Hybrid	Hybrid	Hybrid	Connector	Capacitor	Capacitor							
W.B. Mal			-			_	7			Ť	+		1	1				_

TOTAL FAILURE RATE 1.224498 X10-5 DEGREES CENTIGRADE DC Control, Manpack

Ch FUNCTIONAL BLOCK

DATE

DRAWING NO. 37200. Coupler and DC Control

C Control

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	·w.														
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" rel	3mn	DEMIS	ASAUT ASER	A A A A A A A A A A A A A A A A A A A	1)305 10,1901	83.00	O. O.	C31 V		253176	TARBION	253872 20 70 V			20
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				100000	C7-00//W/17	62	>	300	0	30	10%	K. 1	.002	_	.0002
	Capacitor	72		CKR05BX561KR	198B/1001.2	65	>	S 00	0	3.	107	<b>K.</b> 1	.0005	-	0000
	Capacitor	5		GOOSETSBIRE	1988/1001.2	53	>	200	0	7	13	-	0005	_	
	Capacitor	77		CEROSEKÉ EKR	1988/1001.2	65	Λ	200	٥	7	3	-	0005	[-	
	Capacitor	3		1506-01-6	217A/7.6-25	65	۸	300	0	3	101	- -	28	-	0000
	Capacitor	93		CKRO5BX561KR	198B/1001.2	65	٨	200	0	4	107		0005		0000
1	Capacitor	52		1506-04-2	217A/7.6-25	65	٧	300	0	30	107	-	000	-	000
1	Capacitor	83		1506-04-19	217A/7.6-25	65	>	300	0	~	10	ت	200	-	2000
7	Capacitor	2		518-0005-82	2174/7 6-33	59	,	100	c		10.		000		2000
7	Capacitor	010		CKRO5RX103KR	1988/1001_2	6.5	>	100	C	2.4	20.0	"	0005	-	0000
7	Capacitor	C11		CKR05BX561KR	1988/1901.2	65	۸	200	c	~	10		2000	1-	0000
7	Capacitor	C12		CKR05BX561KR	1988/1002,2	65	>	200	٥				2000	-	0000
7	Capacitor	C13		CKR05BX561KR	198B/1001,2	65	>	200	_ c	~	6		5000	1-	0000
7	Capacitor	C14	,	CKR05BX561KR	198B/1001.2	65	>	200	) c	-			2000	1-	
1	Resistor	R1		RCR05G560JS	1994/361.2	6.5	3	125	C	10	6			1	0000
	Resistor	R2		RCR05G560JS	199A/301.2	65	A	125	C	2	2 5		2000	4	0001
<u> </u>		R3		RCR05G472JS	199A/301.2	65	TIEV.	125	0	_	101		000		1000
<u> </u>		R4		RCR036472JS	199A/301.2	65	3	125	0		10,	-	S CO	2	1000
<b>T</b>		R5		RCR07G102JS	1994/301.2	65	THE.	250	0	100	10%	-	900	,	
R	Resistor	R6		RCR07G102.1S	199A/301.2	65	iği.		0	100	2		0000	,	300
										777	4	7	10000	9	47001

TEMP. DATE 25 June 1973

FUNCTIONAL BLOCK Coupler, Manpack

DRAWING NO. 377200, Coupler & DC Control

TOTAL FAILURE RATE ,000347 X10-5

AT\_\_\_\_\_DEG CENTIGRADE

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	·W.8	•			376		1 8	83	1	11/4	34,			Į.	*
* NG	JAN.	-74,	LOGINAL ASSOL	438 MIN	PEC.	87.00	O. P. C.	SAME I			N. W.	55384	0		1000
ů,	'		•	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4 5	~/	4	*		0	6		<b>y</b>		2
	Capacitor	C15		CKR05BX561KR	1988/1001.2	65	٨	200	0	1	10%	2.2	•0005	1	0000
	Capacitor	C16		CKR05BX103KR	1988/1001.2	65	٨	100	0	24	10%	.24	.0005	1	0000
	Capacitor	C17		CKR05BX562KR	198B/1001.2	65	>	200	0	24	5%	.12	.0005	1	0000
	Caracitor	C18	- س	CKR05BX562KR	98B/1001,2	65	٧	200	0	77	5%	.12	\$000.	1	.0000
	Capacitor	C19		CKROSBX562KB	198B/1001.2	65	۸	200	0	24	107	.12	•0005	1	0000
	Capacitor	C20		CKR058X562KR	198B/1001.2	65	۵	200	0	24	107	.12	5000	1	0000
	Capacitor	3		CKR058X562K	198B/1001.2	65	>	200	0	24	54.7	.12	.0005	1	0000
	Capacitor	C22		CKR05BX562KR	1988/1001.2	65	V	200	0	24	57.	.12	.0005	•	. 0000
	Capacitor	223		CKR05BX562KR	198B/1001,2	65	>	200	0	24	57.	.12	\$000	1	.0000
	Capacitor	C24		CKR05BX562KR	1988/1001.2	65	×	200	0	24	5%	.12	.0005	1	0000
	Capacitor	525		CKR05BX562KR	198B/1001.2	65	>	200	0	24	5".	.12	•0000	1	0000
	Capacitor	622		CKR05BX562KR	199B/1001.2	65	>	200	0	24	5.	.12	0002	-	0000
	Capacitor	C2.		CKR05BX562KR	198B/1001.2	65	>	200	U	24	5	.12	.0005	1	0000
	Capacitor	52.8		CKR05BX562KR	1938/1001.2	65	>	200	С	5.7	5.5	.12	• 0005	1	. 0000
	Capacitor	029		CKR05BX562KR	1988/1001.2	65	>	200	С	24	57.	.12	.0005	1	00000
	Capacitor	C30		CKR05BX562KR	1988/1001.2	65	۲	200	0	54	10%	.12	.0005	<b>F</b> -4	00000
	Capacitor	C31		CKR05BX103KR	199B/1001.2	65	>	100	0	24	10%	.24	.0005	1	0000
	Capacitor	532		CKR05BX103KR	1998/1001.2	65	>	100	C	24	10%	.24	.0005	1	.0000
	Capacitor	C33		1506-04-4	217A/7.6-25	65	>	300	0	30	10.	• 1	.002		.0002
		C 3		1506-04-6	217A/7.6-25	65	>	30°	O	30	5%	.1	500*	1	.0001
		535		1506-04=19	217A/7.6-25	65	÷	300	C	30	5.7	٦,	.002	<b>,</b>	.0001
	TEMP.		DATE_2	25 June 1973					TOTAL	FAILURE	JRE RATE	ı	.000130	×10	S.
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FUNCTIONAL BLOCK Coupler. Manpack

DEGREES CENTIGRADE

PAGE 2 OF 4

DRAWING NO. "TOOM, COUDIER & DO CONTROL

-57-

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	CABLE	305	31.2	,		,	,		심	7	7-9	7	0,7	,		6-7-	9-7.	9-7-	7-9		  -  -			
		AAN	1994/301.2	1001/201	7011	7-105/4661	7-1116/4851	73/8/301-7	1994/301_2	21747.12	217A/7.7-9	0 7 77 4716	9174/7 7-10	, , ,	71/4/17	217A/7.7	217A/7.7	7. TAT12	217A/					
	ės.		1	-	<del> </del>	+	+	+-	-+		12	٠			1						-			
-	436	MON	RCR056271.1S	0000	KCKU X.BZUJ.	RCROSCZODIS	בונטוסכוואיזא	RCK05C1031S	RCROSC1031S	357230-12	371250-1	10000	100,001		1-10-7081	1802-01-7	1802-01-7	7-10-2081	1902-01-7					
			RCRO		REEL	RCRO	KIK	KCKO	BCRO	3572	3713		1 6		1807	1802	1802	1802	1802	<u> </u>		_		_
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	IFAC.	MAN								SEC SEC	CFC			ָרָבָּרָ בַּרָרָ	25	CEC	CEC	CEC	CEC					
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		7.00	3	2	22	<u>88</u>	810		R12	1.1	1.2			3 '	1.5	91	17	1.8	σ <u>`</u>	-	-	_	-	-
2	•	SM N	,						,	s	1		1		إ	اِي	ř	F	ļ ,					
-		(4) A	4 4 4	ייבאומרטן	Resistor	Resistor	Resistor	Reistor	Resistor	Inductor	To do no to the	1	Inductor	ranctor	Inductor	Inductor	Inductor	Inductor	Inductor					
4	.M.B .	' rai	100	2	eg eg	Be	<u>8</u>	7	Re	1.0	- 5	1	4.	=	=	In	E	l I	1 5		-	+	+	+-
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TOTAL FAILURE RATE . 018096 X10-

FUNCTIONAL BLOCK Coupler, Manpack

TEMP.

DATE 25 June 1973

BRAWING NO. \_\_\_\_\_\_\_ Gaupter & DR. Contra

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• •	-732 1888	S ANALYSIS	7518										į		ļ	
	.W.8		`		370	9		43,		1/10	341.	30,		1	30,	K & •
* MEL	AMA NAME	roemis	MANUE A	A A A A A A A A A A A A A A A A A A A	Application of the state of the	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A'AAAA	CHARA A		353/10	(AR390)	STAIR S	0		301	. \
	Inductor	L10		1802-01-7	217A/7.7-9	65					101		.2	1	°,02	
	Inductor	111		1802-01-7	217A/7.7-9	65					107		.2	•1	• 02	
	Inductor	1.12		1802-01-7	2174/7.7-9	65					107		1,2		.02	
	Relay	Κī	<b>Stanson</b>	LJ-7137	217A/7.10-5	65					101		.0093	2.5	.0023	•
	Relay	Κ2	Branson	1,1-7137	217A/7.10-5	65					10%		•0093	2.5	.0023	5
	Relay	К3	Branson	1.3-7137	217A/7.10-5	65					10%		.0093	2,5	.0023	5
	Relay	K4	Branson	LJ-7137	217A/7,10-5	65					107		•0093	2.5	.0023	5
	Relay	К5	Branson	LJ-7137	217A/7.10-5	65					107.		.0093	2.5	.0023	5
	Relay	К6	Branson	LJ-7137	217A/7-10-5	65					107.		.0093	2.5	. 00232	5
	Connector	P1	Amphenol	85930-519P,	RADC11/191	65					1007		.00500	255	.0025	٠
	Cennector	Р3	Mcrodot	141-1005-000	RADC11/191	65					1007		.032	.5	.016	
	Inductor	1.13		VK20010/3B	21 <sup>7</sup> A/7.7-9	65					107		.2		• 02	
		1.14		357230-10	217A/7.7-9	65					57.		.2	1	.01	
		1.15		357230-10	217A/7.7-9	65					57.		.2	1	.01	
	Diode, Sl	CR1		JANIN5711	2174/7.4-11	:228	3	250	0	<b>k</b> 1	10%	<u>.</u> 1	.210	1.5	.0315	
		CR2		JANIN5711	217A/7.4-11	.228	TIE	250	0		107	.1	.21	1.5	.0315	
		CR3		1AN1N5711	217A/7.4-11	.228	TITA	250	0	k 1	107.	.1	.21	1.5	.0315	
		CR4		JAN1N5711	217A/7.4-11	.228	E S	250	0	12	10%	<b>4.</b> 1	.21	1.5	.0315	
		CR5		JAN1N5711	217A/7.4-11	.228	TIEW	250	0	د1	10%	2.1	.21	1.5	.0315	
	Connector	P2		MM29-225D205	RADC11/191	65					100%		.0071	5.	.0035	~
	Hvhrld	E	CEC	376114	USAECOM	65					10%		,2064		.02064	. •
	TEMP.		DATE 25	25 June 1973					TOTAL		FAILURE RATE	ł	.031419	×10-	N.	
-	FUNCTIONAL	200	יים ביוטט	1.					•			ָּבְּיִבְּיִבְּיִבְּיִבְּיִבְּיִבְּיִבְּי	13.400			

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Coupler, Manpack FUNCTIONAL BLOCK

PAGE 4 OF

377200, Coupler & DC Control DRAWING NO.

DEGREES CENTIGRADE

## APPENDIX II

STRESS ANALYSIS - VEHICULAR

-	412 AES	RESS ANALYSIS	YSIS											(	
	'W.D		· \		3 Mrs	1	*8	4313	li .	LAGOS	SNIAR	300	1 0		1020
rai.	WA A	25	JANA NASAN	SAN WAND	NAM! NAM!	A. A. Gara Y.	A PARA	O31 AA		4340 31/10	AL PO	3912	18.	. `	201
	Capacitor	5	JFD	DV51	217A/7.6-33	65	volts	100	0	1:	302	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	.009	Ŀ	.0027
		23	,	1501-36-55	217A/7.6-25	9	volts	100	0	.1	30%	۸.1	.002	2	.003
		75	JED	DV510H	2174/7_6-33	65	volta	100	a	1	30%	1 '	600	,	.0027
		S		1501-36-55	217A,7.6-25	65	volts	100	0	.1	30%	A. 1.	.002	2	.003
	ì	67	JFD	DV510H	217A/7.6-33	65	volts	100	0	.1	30%	1, 2	600	•	.0027
		93		1501-36-55	217A/7.6-25	65	volte	100	0	.1	30%	7	.002	2	.003
		C12		1501-36-53	217A/7.6-25	65	volts	100	0	1.	30%	٠.	.002	5	.003
		C13	JFD	DV510H	217A/7.6-33	65	volts	100	0	.1	307.	7. 7	600	•	.0027
		63		CKR05BX102KR	198B/1001.2	65	volts	200	15	15	1007	.075	. 0005.	5	. C025
	Resistor	E		RCR05G104JS	1994/301.2	65	音	125	c 1	< 1	2001	1' >	. 0002	10	700°
		22		RCR05G302JS	1994/301.2	65	温	125	c 1	د 1	1001	1. >	. 0002	10	002
		22		RCR05G104JS	1994/301.2	65	音	125	1 >	<b>~</b> 1	100%	1. >	.0002	10	. 002
		R4		RCR05G302JS	199A/301.2	65	Ŋ.	125	1 >	1 >	1007	1° >	. 0002	10	. 002
		82		RCR05G104JS	1994/301.2	65	温	125	1 >	1,	100%	1. >	• 0005	10	- 002
		83		RCR05G202JS	1994/301.2	59	音	125	0	10	30%	د.،1	. 0002	10	9000
	Inductor RF	13	Lenox Rugle	NR2.7	217A/7.7-9	65					30%		.2	8.6	.516
		77	Lenox Fugle	NR3.3	217A/7.7-9	65					30%		.2	8.6	.516
		13	Lenox Fugle	NR3.9	21/A/7.7-9	65					30%		.2	8.6	.516
		77	Lenox Fugle	NR1.8	217A/7.7-9	65					30%		.2		.516
		1.5	Lenox Fugle	NRO.47	217A/7.7-9	65					307		,	7 0	515

Preselector, Band I Vehicular DATE 25 June 1973 FUNCTIONAL BLOCK

PAGE 1 OF 3

DRAWING NO. 377450, Tuner

TOTAL FAILURE RATE 261590

DEGREES CENTIGRADE

TEMP.

2722	S.RESS	S ANALYSIS	1818	,											ļ
\	.W. 8		. /		376	1		8		4/4	3N				30
* 4	3m,	108ML	JOO!	TANGER	PRI ICAL	R.T. GROZ	SI 3MV BY	Q3L		10531R	TARABAC	253912	0,13	. \	300 A A
2			•		SIL	2	10	8					1	- 1	
	Casacttor	cm		CKROSBX102KR	198B/1001.2	65	Volte	200	10	4	100%	< · 1	.0005	2	9025
		c3		CKR05BX102KR	1988/1001.2	65	Volts	200	0,0	90	1001	.45	001	5	005
	Transformer	τ1	Cin. Elec.		217A/7.7-9	65					30%		7	10	9
		T2	Cin. Elec.		217A/7.7-9	65					30%		2.	97	5
14.	Relay	K1	Teledyne	421D-26	217A/7.10-5	65					30%		.0093	50	1425
[-]	Diode Varac.	CR1	TRW	371256-1	Cin. Elec.	65					1007.	7	ت ت	•	0,1
			TRW	371256-1	Cin. Elec.	65					1001	<.1	1.0	•	1.0
		CR3	TRW	371256-1	Cin. Elec.	\$5					100%	<.1	0	•	0
		CR4	TRW	371256-1	Cin. Elec.	65					1007	< .1	0.1	,	1,0
		CR5	TRW	371256-1	Cin. Elec.	65					1007.	7.1	0,0	-	1, c
		CR6		371256-1	Cin. Elec.	65					1001	<.1	1.0	,	1,0
		CR7		371256-1	Cin. Elec.	65					1007.	۲. ٦	0.	•	3.0
		CR8	TRW	371256-1	Cin. Elec.	65					100%	2.1	1.0	'	1.0
,	Capaciter	c10		CKR05BX102KR	1988/1001.2	65	Volts	200	15	1.5	100%	4.1	.0005	5	.0025
		214		CKRO5BX102KR	1938/1001.2	65	Volts	200	0	5	30%	. 1	.0005	5	.0007
•		C15		CKR05BX102KR	198B/1001.2	65	Velts	200	0	2	30%	4.1	.0005	5	00073
		C23		CKR05BX102KR	198B/1001.3	65	Volts	200	90	06	100%	.45	.0005	5	.005
		C24		CKR05BX102KR	1988/1001.	65	Volts	200	15	15	100%	4.1	.0005	5	. 0025
		C25		CKR05BX102KR	1988/1001.2	65	Volts	200	15	15	100%	د ،ا	5000;	5	. 0025
		C26		CKR05BX102KR	1988/1001.2	65	Volts	200	0	2	307.	4.1	0002	5	000
											l		!		

25 June 1973 DATE TEMP. -62-

Vehicular Preselector, Band I FUNCTIONAL BLOCK

DRAWING NO. 377450, TUDET

PAGE 2 OF

x10-5 TOTAL FAILURE RATE . 036475

DEGREES CENTIGRADE

••	2712 . KESS	S ANALYSIS	rsis												
	'W' 8		`		376	/,	\ .v.	43	\	1Ns	ON/				*
* re	JAN.	TOPINUS	JOO!	TARG	Spec CA	ST. CHON	W. W.	13mg		1053176	A NA 3 AC	SS3A12	O VS	. •	1084 A
			<b>'</b>	ONCO LAGORA	2 1001/asot		8	٤	- 1	15	100			, ,	0005
	1611516	3 5		1501-36-162			volts	100	0	1.	30%	1	.002	2	003
	Resistor	R5		RCR05G104JS	1994/301.2	65	mW	125	7 7	<b>k</b> 1	100%	<.1	,0002	10	.002
		R6		RCR05G6223S	199A/301.2	65	Мm	125	•	41	30%	4.1	0002	10	0000
		R7		RCR05G302JS	1994/301.2	65	PH.	125	< 1	د1	100%	<.11-	.0002	1.0	.002
	,	R11		RCR05G333JS	199A/301.2	65	TH.	125	0	71	30%	<.1	0002	10	9000
		812	٠	RCR05G104JS	199A/301.2	\$5	mW	125	0	, V	30%	<.1 <	.0002	10	9000
		R13		RCR05G303JS	199A/301.2	65	TH.	125	0	k 1	30%	<.1	.0002	10	9000
		R14		RCR05G303JS	1998/301.2	65	min.	125	0	71	30%	4.1	,0002	10	9000
	Inductor	1.6	Lenox Fugle	NR10	217A/7.7-9	65					30%	-	.2	8.6	.516
		1.7		NR 10	27.7/A7.1-9	65					30%		,2	8.6	516
		112	Į.	NR10	217A/7.6-25	65	1				90%		.2	8.6	1,548
	Transformer	T3	Cin. Elec.		217A/7.7-9	65					30%		.2	10	9
		74	Cin, Elec.		217A/7.7-9	65					30%		.2	10	9,
113	Transiator	01	Siliconix	U320	217A/7.4-13	37	watts	3	٥	15	30%	.05	608	8	1,459
anais	Transistor	02		JAN2N2907	217A/7.4-13	.228	l'e	400	0	9	30%	۵. ک	.511	80	1.226
	Diode, Pin	CR9	Hew. Eack.	HP5082-3168	217A/7.4-11	.32	Min	250	0	1.4	30%	د .00	.269	3,5	.2824

X10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE . 676055 DATE 25 June 1973

Vehicular Preselector, Band I FUNCTIONAL BLOCK

377450, Tuner DRAWING NO.

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PAGE 3 OF

- •	2712 TRESS	S ANALYSIS	YSIS	•											
" rei	W.B. W.W.	345	JOHNAS MANUEAC.	TARA	APPLICABLE	20 OHION	AC BY	A373MAPAPA		ONI ESCENT	OPERATING TO JOY	3 20-0 470	0,14		401084 7
	Capacitor	C29		CKR05BX102KR	1988/1001.2	65	volte	200		06	100%	.45	1001	5	005
		C27	JFD	DV510H	217A/7.6-33	65	volts	100	0	.1	30%	1, >	600.		.0027
		53		1501-36-49	217A/7.6-25	65	volta	100	0	1,0	307	1, >	,002	5	003
		C30		ру501н	217A/7.6-33	65	volts	100	0	.1	30%	<.1	600	ı	.0027
		C31		1501-36-49	217A/7.6-25	65	volts	100	0	••	30%	۲,۵	,002	5	.003
		<b>C33</b>		DV510H	217A/7.6-33	65	volts	100	0	.1	30%	<.1	.009	8	.0027
		c32		1501-36-49	217A/7.6-25	65	volts	001	0	.1	30%	<.1	.002	5	.003
		C34		1501-36-62	217A/7.6-25	65	volts	100	0	.1	302	1. >	.002	5	.003
		C40		р <b>v5</b> 10н	217A/7.6-33	65	volts	100	0	٠,	30%	<.1	600	1	.0027
		36		CKR05BX102KR	198B/1001.2	65	volts	200	15	15	100%	.075.	5000	5	.0025
		c37		CKR05BX102KR	1988/1001.2	65	volts	200	0	.1	30%	1. >	0005	5	.00075
	Resistor	R15		RCR05G303JS	199A/301.2	65	清	125	7 1	<b>61</b>	100%	1. >	0005	1.0	.002
		R16	-	RCR05G204JS	199A/301.2	65	ķ	125	< 1	Ĺ,	100%	1. >	0005	10	.002
		R1.7		RCR05G302JS	1994/301.2	65	<b>1</b> 500	125	ر ۲ ح	k 1	1001	L.2	0002	10	.002
		R18		RCR05G204JS	199A/301.2	65	¥.	125	< 1	<1 > 1 < 1	100%	<.1	0005	10	.002
		R19		RCR05G302JS	199A/301.2	65	音	125	77	4.1	100%	4.1	0007	10	,002
		R20		RCR05G204JS	199A/301.2	<u>.</u> 5	Ma	125	< 1	د1	100%	<.1	0002	10	002
	Inductor RF	113	Lenox Fugle	NR-3.9	217A/7.7-9	65	•				30%		.2	8.6	.516
		114	Lenox Fugle	NR-2,7	217A/7.7-9	65	٠				30%		.2	8.6	,516
		1.15	Lenox Fugle	NR-3,9	217A/7.7-9	65					30%		.2	8.6	.516

DATE 25 June 1973 TEMP.

Preselector, Band II Vehicular

FUNCTIONAL BLOCK

PAGE 1 OF 4

DRAWING NO. 377450, Tuber

\_x10-5 TOTAL FAILURE RATE

DEGREES CENTIGRADE AT

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1	TRESS ANALYSIS	7515												
W.O.		`	\	37			,		1	2	3			
TIEN & MANY	TOSMUS	TOO BURNEY	MANDER	1 Jay	Q O	to at	A313MAA		WITESCEN,	DO W	25.381 10 11 10	38 NTI	107084	4020
Inductor RE	116		4 0 000		<b>`</b> `	Ö	*	. 1	0	B	s	<b>y</b>		0,y
	┼	TENEX FUELE	2,7HZ	217A/7.7-9	65					30%			8.6	516
╃—	+	Lenox Fugle	NRO.33	2176/7.7-9	65					302	-	,		
TE TENETOTHET	┪-	Cin. Elec.		2174/7.7-9	65					307.		,	3 5	370
	7.6	Cip. Elec.		217A/7.7-9	65					33	-		1 :	
Relay	22	Teledyne	421U-26	217A/7.10-5	65			<del>                                     </del>		4 E	1	7	1-	٥
Diode Varac.	. CR10	C.D. Co.	3215	RADC 11/369	6.5					-1	+	0093	25	1425
	CR11	C.D. Ca.	3215	RADC 11/369	65			1	+	2 2002	1		=L. .	0
	CR12	CR12 C.D. Co.	3215		3			1			-		+	0
	CR13	CR13 C.D. Co.	3215	BALY 11/240	7	1		-		100%		0	-	0
	7,00	2 2 2	2000	100/11 Cmm		1		1		1007.	7	0	1.	٥.
		CM14 C.D. CO.	3215	RADC 11/369	65					100%	.1	0		0
		Se	3215	EADC 11/369	65					7001	11.0	  - 	-	
	CKIG C.D.	S	3215	RADC 11/369	65					1007.	<del>  -</del>	-	-	
	CR17		3215	PADC 11/369	65			_		- <del>-</del>	-			
	<u>G8183</u>		3215	RADC 11/369	65				-	<del>-</del>	<del> </del> -			
,	CR19		3215	RADC 11/369	65					<b>{</b> -	<del>\</del>	+	+-	
	CR20_6		3215	BAD 1369	65					<del>-</del>		+	+-	
	CR21 (	CR21 C.D. Co.	3215	RADC 11/36cf	65	*	-	_		+	╁⋍	+-	+-	
	CR22	TEN	371256-1	RADC 11/369	65			+	-	1000	<del>'   '</del>	+	+	
	CR23 7	TRW	371256-1	RADC 11/369	65	<del> </del> 		-	<del>} -</del>		<del>-1  -</del>	-	-1	o.
Capacitor	533		CKAOSAX102KR	1982/1001.2	47	Poles	200	100	7	-		_	0	
								4	1	7 %nov	. 0005	05   5	Š	.0025

TOTAL FAILURE RATE 1.63770 X10-5 DEGREES CENTIGRADE

DATE 25 June 1973 Preselector, Band II FUNCTIONAL BLOCK PAGE 2 OF

Vehicular

DRAWING NO. 327450, Tuner

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	W.B		`		378	,,	10	43.		1/3	SNI				10.
18	IN A TANG	45	JOBINS JOBINS	MART	PPL I CA	Romo's Gray	A. A. A. A. A. A. A. A. A. A. A. A. A. A	13WY		053170	TARBAO	553415	O VY		303
	Capacitor	(39		501-36-53	217A/7.6-25	65	<b>V</b>	100	0	1:	30%	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	15	1 10	003
		25 13		CKR05BX102KK	193B/1601.2	65		200	0	5	30%	<.1	0005	5	.00075
		C42		CKR05BX102KR	198B/1601.2	65		200	0	5	36%	<.1	.0005	5	00075
		C43		CKR05BX102KR	198B/1601.2	65		200	90	90	100%	.45	.001	5	005
		C44		CKR05BX102KR	1988/1001.2	65		200	15	15	100%	د.1	0005	5	.0025
		C45		CKR05BX102KR	198B/1001.2	65		200	0	5	30.	6.1	0005	5	.00075
		C62		CKR05BX102KR	1988/1001.2	65		200	96	90	100%	45	100	5	005
	Restator	R21		RCR05G104JS	1994/301.2	65	清	125	7 7	k1	100%	<.1	0000	1.0	200
		R22		KCR05G302JS	199A/301.2	65	E.S.	125	K1	£1	100%	c.1	0007	10	002
		R23		RCR05G202JS	1994/301.2	65	Ę.	125	9	10	30%	<.1	2005	10	9000
		R24		RCR05G333JS	1994/301.2	55	ķ	125	0	7	30%	2.1	0005	10	9000
		R25		RCR05G104JS	199A/301.2	65	Ma	125	0	د1	30%	2.1	0002	10	9000
		R26		RCR05G303JS	1994/301.2	65	Ji.	125	0	<b>c</b> 1	30%	c.1	000	10	9000
		R27		KCR056303JS	1994/301.2	65	X.E	125	0	12	30%	<b>c.1</b>	2000	10	9000
	Inductor	119	Lenox Fugle	RIO	217A/7.7-9	65					30%		2	8,6	,516
		118	Lenex Tugle	TR10	217A/7.7-9	65					30%		.2	8.6	.516
	Transformer	77	cin. E ic.		2172/7.7-9	65					30%		2	10	9,
		138	Cia, Elec.		217A/7.7-9	65					307.		2	10	٠٤
	Diade Pia	CE24	Hew Pac.	FP5082-3168	2176/7.4-11	.32	Z.	250	0	1.4	307	2 01	269	3.5	.28245
FET	Transistor	03	Siliconix	0320	217A/7.4-13	.37	Ĭ.	₹00	0	.15	307.	.05	.608	8	1.4592

DEGREES CENTIGRADE TOTAL FAILURE RATE DATE 25 June 1973

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FUNCTIONAL BLOCK

TEMP.

Preselector, Band II Vehicular

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DRAWING NO.

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W.O. Mai,	Translator															TEMP	
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377450, Tuner DRAWING NO.

IOBMUS SMAN SAND		_		\	\			•	•	37	•	•	
3MW	•	_		*0	_	43	\	1/13/	PNI		0		*
	MANUFA	TANA	APPLICA SOEC	07 . G. C. C. C. C. C. C. C. C. C. C. C. C. C.	3MAY A	OZIVA		NA340	TIPO	SIAIS SIAIS	×4		301
A47	۱	DYSIOH	<b>↓</b>	65	volte	100	0	1,	30%	7.1	600°	·	.0027
648	TED	DV510H	2174/7,6-33	65	volte	100	0	74	30%	2.1	600.	٠	.0027
673	JFD	DV510H	217A/7.6-33	65	82 - 0A	100	0	1	30%	175	000	•	2200
756	IFD.	DV510H	217A/7.6-33	65	vol+e	8	0	.1	30%	1,2	000	•	2200
547		CKR05BX102XR	1988/1001.2		volta	200	90	90	100%	7.	1001	5	005
050		1591-36-71	2174/7.6-29		volts	100	0	4.	30%	1. >	.002	2	0030
C51		CKK05BX102UR	1988/1001.2		volte	200	90	90	1001	4.	.001	5	.005
C52		CKR05BX102UR	1988/1001.2	. 59	volts	200	15	15	100%	4.1	.0005	5	.0026
C53		CKR05BX102UR	1987/1001.2	65	volte	200	O	.1	30%	4.1	.0005	5	.0007
Resistor R28		RCR05G204JS	1992, 301.2	65	. Ma	125	< 1	<1	100%	4.1	,0002	2	.002
-		RCR05G302JS	199A/301.2	65	. A	125	< 1	<1	100%	4.1	.0002	10	.002
<b>R</b> 30		RCRC5G304JS	1998/301.2	65	i Agi	125	< 1	<b>&lt;</b> 1	100%	<.1	.0002	10	005
R31		RCR05G302JS	1994/301.2	65	742	125	< 1 ×	<b>61</b>	100%	4.1	.0002	2	005
R32		RCR05G204JS	199A/301.2	65	湆	125	77	ij	100%	4.1	0003	9	000
R33		RCR05G303JS	199A/301.	65	·A	125	0	712	30%	7.1	0007	2	9000
Inductor RF 1.20	Lenox Fuele	NR3.9	217X/7.7-9	65					30%		-5	8.6	.516
<b> </b>		NR2.2	217A/7.7-9	65					30%		-2	8.6	.516
122	Lenox Fugle	NR3.9	217A/7.7-9	65				٠ ,	392		-5	8.6	.516
123	Lenox Fugle	NR2.2	217A/7.7-9	65					30%		7,	8.6	.516
1.24	Lenox Fugle	NR10	217A/7.7-9	65	•				302		1.2	8.6	.516

DEGREES CENTIGRADE TOTAL FAILURE RATE .261765

> Preselector, Band III FUNCTIONAL BLOCK PAGE\_1\_OF\_

377450, Tuner

DRAWING NO.

Vehicular

DATE 25 June 1973

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	2712 TRESS	S ANALYSIS	YS1 S													
W.	I MAN S. W. W. W. W. W. W. W. W. W. W. W. W. W.	TOBALS	MANUFAC.	TARA	APPLICABLE SPECTALE	40 *dien	TO OT	A313WAAAA		1N32531100	SWIT KA390	310-40 AUNO	01100		4030M A	W .
	Inductor RF	1.25	Lenox Fugle	NRO.33	217A/7.7-9				1		307	_	4-	٠, ١	11:	٦
		L26	Lenex Pugle	NRIO	217A/7.7-9	65					30,		2	α α	515	
	RF Transformer	7.9	Cin. Elec.		217A/7.7-9	65					392		2	2	,	T
		T10	Cin. Elec.		217A/7.7-9	65					397			2		7
	Relay	5	Teledyne	421D-26	217A/7.10-5	65					30.		10093	25	1425	_
	Diode Varec.	CR25	C.D. Co.	3215	Cin. Elec.	9					1001	'n	100		ت	7-
		CR26	CR26 C.D. Co.	3215		65					1007	V	0	'	C	7
		CR27	C.D. Co.	3215	Cin. Elec.	65					1007	7	-	,	0 0	<del></del>
		CR28	CR28 C.D. Co.	3215	Cin. Elec.	9					100%	v	-		0 1	<del></del>
		CR29	CR29 C.D. Co.	3215	Cin. Elec.	65					1007	\ \ \		,	1.0	1
		CR30	CR3d C.D. Co.	3215	Cin. Elec.	65					1007		0.0		1.0	<del></del>
		CR31	CR31 C.D. Co.	3215	Cfn. Elec.	65					1007	7.1	0	•	1.0	1
		CR32	CR32 C.D. Co.	3215	Cin. Elec.	65					1007	7.	0.1		0.1	
	Diode Pin	CR33	Hew. Pac.	HP5082-3168	2174/7.4-11	.32	蒼	250	0	1.4	30%	٥. ٨		3.5	.28245	•
	Capacitor	C54		1501-36-53	217A/7.6-25	65	volts	100	0	1.	30%	7.1	002	1	003	-
		C53		CKR05BX102KR	1983/301.2	65	volts	200	10	7	100%	v v	+	5	.0025	<del></del>
		257		CKR05BX102KR	198B/301.2	65	volts	200	0	5	30%	7	<del> </del> 4	ស	.00075	ليبمه
		853		CKRO5BX102KB	198B/301.2	65	voits	200	0	۶	30%	>	5005	rJ.	.00075	(بربيب
		659		CKR05BX102KR	1988/1001.4	65	volts	200	0	5	30%	<.1	£000°	5	00075	
		090		CKR05BX102KR	1988/1001.4	65	Volte	200	15	15	1007	7	0005	'n	0025	-

TOTAL FAILURE RATE 1.06672 X10-5 DEGREES CENTIGRADE Vehicular DATE 25 June 1973 Preselector, Band III

FUNCTIONAL BLOCK Preselec

TEMP.

DPAWING NO. 327450 Tunex

	· \ \	_	_	\		`	•	•	37			`
	`	_		40	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\	LASS.	ON,		0		102
3WW	JOHN'S NAWLER	TARA	Specification of the specific to the specific	S. Grain	SARARA		V4340	100		N.S.		10°5°
-		CVEOSBY102ER	٠	65 Volte	\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	96	95	1001	.45	100	5	005
Capecitor Cer		CPBOSEVIOUR	1988/1001.2			10	10	1002	Z . 1	.0005	5	0025
2 2		RCR05G204JS				< 1	1>		7	0007	10	007
R35	2 20	RCR05G302JS	199A/301.2	WED 59	125	< 1	c1	1007	1. >	0007	10	.002
R36	9	RCR05G202JS	199A/301.2	65 mW	125	•	2	30%	1, 2	0007	22	9000
R37		RCR05G333JS	199A/301.2	65 mil	125	0	12	30%	c.1	.0002	10	9000
R38	00	RCR0561043S	199A/301.2	65 ms	125	0	41	30%	2.1	0003	10	9000
R39	6	RCR05G303JS	199A/301.2	65 mil	125	0	<1 >	30%	1. 2	0007	10	9000
078		RCR05G302JS	1994/301,2	65 my	125	< 1 >	41.	100%	2.1	0007	12	200
127	7 Lenox Fuele	NR10	217A/7.7-9	65 mH	125			90%		.2	8.6	1.548
╀	┼─		2174/7.7 9	65				30%		.2	10	و
Transitories	1 2			65				307		•2	10	9.
Tressetator 05	\$1140	U320	2174/7.4-13	.37 Wett	tte 3	0	.15	30%	0.	.608	80	1,4592
1	†-	.3AN2N2907	217A/7.7-13	.228 mW	700	0	9.	30%	× .01	.511	80	1,2264
<u>.</u>												
		·										

DEGREES CENTIGRADE TOTAL FAILURE RATE . 544950

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DRAWING NO.

FUNCTIONAL BLOCK

Preselector, Band III Vehicular

25 June 1973

DATE

	\$534. ZT	SS ANA	ANALYSI S												
\	`#\.												-		
\			\	\			\ \ 40	43		1N	3N	37.			*
TO THE	JAN N	25	Sems Sems	138MIN	1) Jaal 201 Jaal	•	BY GROY	O31 P		3053176	TARRATI	25384 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,10		2000
	Canacitor	70	L		1	VL.	Ö		- 1		Ö	5	y		ZV.
		23		CKRUSBX102KR	1981/1001.2	65	velts	200	0	s	206	-	2000		0000
		3		CKR05EX102KR	1988/1001.2	65	volte	200	6	2.5	5		0005		7700
		218		1501-36-58	217A/7.6-25	65	volts	100	0		ě	-		, "	7700
		613		1501-36-55	217A/7.6-25		Volts	i	C		8		7000	, ,	600
		25		1501-36-60	217A/7.6-25	L	Volts	100	0	2.8	206	7 -	700	,	889
1		173		1501-36-71	217A/7.6-25	L	Volts	100	6	-	3 8	•	200.		6
		C22		1501-36-53	2175/7.6-53	3	941.00	2	, (	: :	200	•	200.	2	600:
	Resistor	RIO		RCR05c202 Te	1961/201 2			3	2	2.5	20%	7.	200	5	600
	Inductor	a .		10000000000000000000000000000000000000	73.105/4467	65	清	125	0	91	90%	V.1	.0002	10	8100
		3	Lenox rugle	NRIO	2174/7-7-9	65					706		2	ď	67.0
+		1.9	Cin. Elec.		2174/7-7-9	65					200		,		0/2
	3	110	Cin. Elec.		217A/7.7-9	59					505		,		6/6
	Fixer	15	Ralcon	Жбр	21/k//.4.11 7.7.9	65					800		37, 30	5	
+	Connector	P3	Micredot	141-1005-0001	RADC 11/191	65					80			7	77.
+		P2	ФШУ	85930-4 8p	RADC 11/191	65					3 3		700	+	8875
+		P3	AED	85930-4 10n	RADC TI/101	1	-	-		1	2007		•0058	-	•0029
		70	7,500		T 2 7 / T = 2 / T = 2	6	+	1	1		100%		.00652	5	0032
				141-1605-0001	KADC :11/191	65	+				30%		790	5	9600
-		2	Microdot	141-1005-0001	RADC 11/191	65					30%		790	<del>                                     </del>	9000
+							•			-					
+		1							-		1	T	+-	1	T
1						<del> -</del>	<del> -</del>	+	$\dagger$	$\dagger$	$\dagger$	†	+	1	7

TOTAL FAILURE RATE 1.769146 X10-5 DEGREES CENTIGRADE

> Mixer and Connectors Vehicular FUNCTIONAL BLOCK PAGE 1 OF 1

DATE 25 June 1973

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DRAWING NO. 327450, Tuner

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Capacitor C1 Capacitor C1 C2 C3 C4 C4 C5 C6 R82 R92 R93 Inductor RF L1 Lenox Hybrid HY2 Cin. E HY4 Cin. E HY4 Cin. E	A JANA HARANA HA	CKRO5BX103KR CKRO5BX103KR CKRO5BX103KR CKRO5BX103KR CKRO5BX103KR	2174/7.6-25 2174/7.6-25 2174/7.6-25 1988/1001.2 1988/1001.2	65 vol 65 vol 65 vol 65 vol 65 vol 65 vol	volta 10 vol	03110		2331NO	AA340	23,972			20,
C			W W W W W W	65 1 65 65 65 65 65 65 65 65	volts volts	-				,	,		~ /
C2 C3 C3 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4			198 <b>B</b> /1001,2 198 <b>B</b> /1001,2 198 <b>B</b> /1001.2 198 <b>B</b> /1001.2		volte	100	0	1	206	1'>	. 902	2	000
CC CC CC CC CC CC CC CC CC CC CC CC CC			198 <b>B</b> /1001,2 198 <b>B</b> /1001.2 198 <b>B</b> /1001.2		volts	100	0	-	907	7	.002	2	000
CG CG CG CG CG CG CG CG CG CG CG CG CG C			1988/1001.2 1988/1001.2 1988/1001.2		,	700	-	1	1007	1 >	000	5	.002
C6 C6 R1 R2 R7 L1 HY1 HY3 HY3 HY4 HY4 HY4			198B/1001.2 198B/1001.2		volte	100	.5	.5	1007	7	.000	, ()	.002
C6 R1 R2 R3 R4 L1 HY1 HY2 HY3		~	198B/1001.2		volte	100	5	5	1007.	< .1	000	2	.002
R1 R2 R3 R4 L1 L2 HY2 HY2 HY2 P1		-		65	volts	100	2	S	1007	0.	000	10	.002
RF L1			199A/301.2	65 1	i <sub>A</sub> c	125	77	c 1	1007	7	.000	10	.002
RF L1 1.2 HY2 HY2 HY3 HY4 HY4		RCR05G393JS	1994/301.2	65	ì	125	2.1	<1	1007	د ،1	000	10	.002
HY1 HY2 HY4 HY4 HY4 HY4 HY4		RCR05G100JS	199A/301,2	65 6	Mai	125	2.5	2.5	1007	<.1	000	2	007
HY2 HY3 HY4 HY4	Fugle	NR3.3	217A/7.7-9	65					100%		22	8	8 1.72
HY2 HY3 HY4 HY4	Lenox Fugle	NR3.3	217A/7.7-9	65					1007		.2	8	1.72
HY2 HY3 HY4	Cin, Elec,	376259	USAECOM	65					1001		3.6120		3.61
HY3 HY4	Elec.	376259	USAECON	65					1001		3,6120	-0	3.61
HY4	n. Elec.	376259	USAECOM	65					1007.		3.6120		3,61
ā	Elec.	377668	USAECOM	65					100%		5.034	•	5,03
†	Merodot	141-1002-0001	RADC 11/191	65					30%		460.	5	.028
P2 Micr	Merodot	141-1002-0001	RADC 11/191	65					0		790.	.5	٥
Crystal Fil. Fil		376270	2174/7.12-3	65					897		4.08	1	3.63
FL2		376252	2174/7.12-3	65					457		4.08	•	1.83
Hybrid HY5 Cin.	Elec.	376261	USAECOM	65					1002		5362		536

25 June 1973 DATE

Vehicular Receive IF FUNCTIONAL BLOCK PAGE 1 OF

DRAWING NO.

TOTAL FAILURE RATE 2.53766

DEGREES CENTIGRADE

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•	(12 ESS	S AWALYSIS	Y S 1 S											ł		
" res.	in.e.	TOOMS	JOHN TURKAC.	TARA	APPLICABLE	20 ° Glie I	AD AT A	A STED		ONIESCENT ONERA	SWITAR 340 TO	3000 40	0,00		401014 8	4 . 301
	Hybrid	HY6	Cin. Elec.	376261	USAECOM	65			1		1002		5362		5362	<b>}</b>
	Crystal Fil.	FI.3		376270	2174/7.12-3	65					277		4.08	•	1.7952	T 757
				376251	2174/7.12-3	65				·	17		7.08		0408	
				376251	217A/7.12-3	65					21		80.4	•	0408	
	Capacitor	73		CKR05BX103KR	1988/1001.2	65	volts	200	0	0	0		. 6000	5	0	,
	Resistor	<b>K</b>		RCR056911JS	199A/301,2	65	WE	125	< 1	<1>	100%	۲.>	2000	10	002	
		3		RCR05G101JS	1994/301.2	65	mir.	125	<1>	د ۱	1001	1.2	000	10	200	
		R6		RCR056274JS	199A/301.2	65			01	2	1007.	4.1	0005	10	002	<del></del>
		R.7		RCR056274JS	199A/301.2	65			15	10	1001	4.1	0000	10	002	-
		R10		RCR05G151JS	1994/301.2	65			0	0	0	1.>	2000	10	0	
	Inductor	13	Cin. Elec.	377462	217A/7.7-9	65					1007		.2	8,6	1.72	<del></del>
		3	Lenox Fugle	NR82	217A/7.7-9	65					1001		.2	8.6	1,72	
		1.5	Lenox Fugle	NR82	217A/7.7-9	65					1007		.2	8.6	1.72	
		1.6	Lenox Pugle	NR82	217A/7.7-9	65					1007		.2	8.6	1.72	
		17	Lenox Fugle	NR82	217A/7.7-9	65					100%	-	2	8.6	1.72	
		25	Lenox Fugle	NR82	2174/7.7-9	65				//	100%		.2	8.6	1 72	~~~
		1.9	Lenex Fugle	NR82	217A/7.7-9	65					100%		.2	8.6	1.72	
		116	Lenox Fugle	NR82	217A/7.7-9	65					1007	Ÿ	.2	8.6	1.72	1
		131	Lenox Fugle	NR82	2174/1.7-9	65	•				1007		.2	8.5	1,72	
		1.12	Lenox Fugle	NR81	2174/7.7-9	65					1001		.2	ဖ	1.72	· · · ·
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TOTAL FAILURE RATE 1.9621 DATE 25 June 1973

Receive IF Vehicular FUNCTIONAL BLOCK

DRAWING NO. 377400, IF

X10-5

DEGREES CENTIGRADE

PAGE 2 OF 3

<del>-</del>73-

TEMP.

10t 2,152 403884 A 31 14 8 FAITINE .269 0114 SIGESS € 0.01 3 De rate 100% ONIT PHE BOO ANJOS ZINO ~ OFFED PARMETER 150 3 .32 JAPPI ICABLE 217A/7.4-13 MIGHBER TAPA 2N5652 MAER MANUFAC AN AL YS! S TOOMUS 01 RESS 3mn Transistor 144 SIMPN

X10-5 DEGREES CENTIGRADE .2152 TOTAL FAILURE RATE Vehicular 25 June 1973

BLOCK 01 PAGE

Receive IF

FUNCTIONAL

-74-

DRAWING NO.

V	CT12 NESS		AN AL YS! S												
	.w.8				374	l .	,	*		14	34	32		ł	*
1	IN THE	1	JOEM JOEM	A JE V	17. CAB	83.00	97	31 3 My		30531	TARRAS!	55301		. \	2004
Q/	S. S.	2	4	25	44x	1	AND	88		× 1	70 \	S	<b>Y</b> 3		Ož /
	Resistor	R11		RCR05G105JS	1994/301.2	LI	No.	125	<1	1 >	1001	<b>1.</b> >	0005	10	002
		R12		RCR05G105JS	199A/301°2	65	III.	125	< 1	4.1	1001	7,7	0002	10	200
		R13		RCR05G105JS	199A/301.2	65	音	125	د ۱	<b>1</b> >	1001	7.7	0002	10	005
		R14		RCR05G105JS	1994/301.2	65	酒	125	7 7	<b>61</b>	100%	<.1	0.002	10	002
		R15		RCR05G105JS	199A/301.2	65	iği.	125	< 1	77	1001	1. >	0002	10	200
		R16		RCR05G105JS	1994/301.2	65	) A	125	د 1	77	1007	۲. >	0005	10	005
		R17		RCR05G105JS	1994/301.2	65	M.	125	< 1	< 1	1007	<.1	0005	10	002
	Capecitor	83		CKR065X104KR		65	volts	200	105	155		5.	0015	5	0075
	181	B		377670		65							3.7	•	3.7
	Hybrid	80		377671	USAECOM	65					1001		3.6288		3,6288
	MSI	S		377669	USAECOM	65					1001		1.5	8	1.5
	Condector	P3	Ашр	1-85930-1 31	- 614	65					7001		797107	.5	.00732
					,•										
				ļ ————————————————————————————————————										]	

DATE 25 June 1973

Band and Tuner Control Vehicular FUNCTIONAL BLOCK

377400, IF DRAWING NO.

TOTAL FAILURE RATE .885762

DEGREES CENTIGRADE

- 75-

TEMP.

Capacitor   Ci	27.72	2 STRESS	S ANALYS	5182													1
Colored   Colo	<b>_</b> •	W.B				3781	40		434		INJ.	ONIA				103	W.
C2	• , \	3mn	-shus	"W	PART	AD I JAAN	· Chief	4.	AN TEN		COPER	TY TO		N. A.	. \	307	
C2         WE30BA472K         217A/7.6-57         65         volte         50         10<	$\mathbb{L}_{\mathbf{o}}$	apacitor	C1		NP105A-10	17A/7.6-8	65	volts	4		1.	306	.02	0011	•	0000	ਜ਼ਿਲ੍ਹਾਂ ਜ਼ਿਲ੍ਹਾਂ
C5   Se68-10   213A/7.6-81   65   volte   35   12   1007   0.34   6027   - 1.     C6   J2268-10   213A/7.6-81   65   volte   35   12   12   1007   .34   6027   - 1.     C7   J2268-10   213A/7.6-81   65   volte   35   12   12   1007   .34   0027   - 1.     C8   J2268-10   213A/7.6-81   65   volte   35   12   12   1007   .34   0027   - 1.     C8   J2268-10   213A/7.6-81   65   wid   125   .1   1007   .34   0027   - 1.     R1   RCRO5G274JS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R2   RCRO5G274JS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R3   RCRO5G274JS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R4   RCRO5G274JS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R5   RCRO5G274JS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R6   RN55D   217A/7.5-27   65   wid   125   .2   1007   <.1   0002   10     R7   RCRO5GXXJS   199A/301.2   65   wid   125   .2   1007   <.1   0002   10     R1   RCRO5GXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   RCRO5GXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   RCRO5GXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   0002   10     R1   R1   RCROSGXXJS   199A/301.2   65   wid   125   .1   1007   <.1   000	1		22		VK30BA472K	217A/7.6-57	65	volts	50	10	10	1001	.2	.0065	5	.0325	
C5         S665R-10         217A/7.6-81         65         volts         35         12         12         1007         .34         .0027            C6         J226R-10         217A/7.6-81         65         volts         35         12         12         1007         .34         .0027            C7         J226R-10         217A/7.6-81         65         volts         35         12         12         1007         .34         .0027            R1         R2         J226R-10         217A/7.6-81         65         wull         125         12         1007         .34         .0027            R2         R2         J226R-10         217A/7.6-81         65         mull         125         .1         1007         <			3		VEJORALOSK	237A/7.6-57	65	valte	50	10	9	1007	2	5000	5	.0325	~
CG         J226R-10         217A/7.6-81         65         volts         35         12         12         1007         .34         0027            C7         J226R-10         217A/7.6-81         65         volts         35         12         10         .34         0027            C8         J226R-10         217A/7.6-81         65         volts         35         12         1007         .34         0027            R1         R2         J226R-10         217A/7.6-81         65         wJ         125         .1         1007          .0027            R2         R2         RC056274JS         199A/301.2         65         mJ         125         .1         .1         1007           1002			2		S685R-10	217A/7.6-81	65	volts		12	12	100%	.34	.0027		0027	<del>- ,</del>
CG CG CG CG CG CG CG CG CG CG CG CG CG C			93		J226R-10	2174/7.6-81	65	volts				1001	.34	.0027	ŧ	.0027	
R1   RCROSG274JS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R2   RCROSG274JS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R3   RCROSG274JS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R4   RCROSG274JS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R5   RCROSG214JS   199A/301.2   65   mW   125   .5   1007,   .1   .0002   10   .     R6   RNJSD   217A/7.5-27   65   mW   125   .5   1007,   .1   .0002   10   .     R1   RCROSGXXJS   199A/301.2   65   mW   125   .5   1007,   .1   .0002   10   .     R1   RCROSGXXXJS   199A/301.2   65   mW   125   .5   1007,   .1   .0002   10   .     R1   RCROSGXXXJS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .1   .0002   10   .     R1   RCROSGXXXJS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R1   RCROSGXXXJS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R1   RCROSGXXXJS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R1   RCROSGXXXJS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R1   RCROSGXXXJS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R1   R1   RCROSGXXXJS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R1   R1   RCROSGXXXJS   199A/301.2   65   mW   125   .1   .1   1007,   .1   .0002   10   .     R1   R1   R1   R1   R1   R1   R1	<b></b>		67		J226R-10	217A/7.6-81		volts				1001	.34	.0027	•	.0027	
R1   RCRO5G274JS   199A/301.2   65 mW   125   1   1007   4.1   1002   10   10   10   10   10   10	<u> </u>		ප	٠	J226R-10	217A/7.6-81		volts	35.		-12	1001	.34	.0027	·	0027	
R2         RCROSGOZAGJS         199A/301.2         65         m/H         125         .1         1007.         <.1         .002         .1         .1         .1         .1         .002         .1	, Tr.	lesistor	R		RCR05G274JS	199A/301.2		Ku.	125	.1	۲.	1007	•	0000	10	,002	<del></del>
RCROSG274JS   199A/301.2   65 mW   125   .1   1007, <.1   .0002   10   .   .   .   .   .   .   .   .   .	<u> </u>		R2		RCR05G274JS	-		A	125	1	1	1007.	4.1	0005		.002	
RCROSG182JS   1994/301,2   65   mW   125   6.1   100%   6.1   .0002   10   .   .   .   .   .   .   .   .   .			R3		RCR05G274JS	1994/301.2		H.Y.	125		٠,	100%	• !	.0002		.002	<u> </u>
RCROSGS14JS   199A/301.2   65 mW   125 .5   1007, <.1   .6002   10   .   .   .   .   .   .   .   .   .			R4		RCR05G1823S	1994/301.2	65	.X	~	•	•	1007	<,1	.0002		005	<del></del>
RCRO5G514JS   1994/301.2   65   mW   125   .5   1007,   C. 1   .4   .3			R5		RCR05G514JS	•		3	~1	5.	.5	1907.		.0002	10	0.03	
RCRO5G514JS   1994/301.2   65   RW   125   .5   1007,   .1   .4   .3   .3   .4   .3   .4   .3   .4   .3   .4   .3   .4   .4			R6		RN55D	217A/7.5-27		iği.	~	.5	.5	1007.			6.	.12	
RN55D       217A/7.5-27       65       mW       125       .5       .5       .6       .4       .3         RCR05GXXXJS       199A/301.2       65       mW       125       .1       .1       1007       <.1			R.7	=	RCR05G514JS	• 1		:51	7	.5	.5	100%	•	0007	21	.002	1
RCROSGXXXJS       199A/301.2       65       mV       125       1       1 160%       4.1       600.2       10         RCROSGXXXJS       199A/301.2       65       mV       125       1       1 160%       4.1       0002       10         RCROSGXXXJS       199A/301.2       65       mV       125       1       1 100%       4.1       0002       10         RCROSGXXXJS       199A/301.2       65       mV       125       1       1 160%       4.1       0002       10			RS		RN55D	217A/7.5-27		音	N	\$	5,	100%	<.1	7	۳.	.12	
RCROSCXXIS       1994/301.2       65       ms       125       1       1       1007       6.1       0002       10         RCROSCXXXIS       1994/301.2       65       mw       125       1       1       1007       6.1       0002       10         RCROSGXXXIS       1994/301.2       65       mw       125       1       1       1007       6.1       0002       10			811		RCROSGXXXJS	199A/301.2		音	~	4	<b>7-1</b>	1007	2,1	6002	10	003	
RCR05GXXXJS       1994/301.2       65       nW       125       1       1       1007       <.1       1002       10         RCR05GXXXJS       1994/301.2       65       nW       125       1       1       1007       <.1			   R12		RCROSCXXIS	1994/301.2	65	. A.	125	,		160%	2.1	000	9	007	<del> j</del>
RCR05GXXXJS     199A/301.2     65     mW     125     1     1     1007     <.1     100     10       RCR05GXXXJS     199A/301.2     65     mW     125     1     .1     1607     <.1			213		RCROSGXXXIS	1994/301.2		Talk.	125	-		1002	7	0007	10	000	
RCR05GXXXJS 139A/301.2 65 mV 125 1 1 1007 < 1 1002 10 .			R14		RCR05GXXXJS	199A/301.2		miv.	125	1,	-1	100%	<.1 2.1	.0002	01	, 902	
			R15		RCR05GXXXJS	1994/301.2	65	Ä	125	-	-	1002	7	0007	10	.002	

X10-5 TOTAL FAILURE RATE . 033879

DEGREES CENTIGRADE

FUNCTIONAL BLOCK PAGE 1 OF -76-

Receive Audio Vehicular

25 June 1973

DATE

TEMP.

377500, Audio DRAWING NO.

SIRESS	S ANALYSIS	\$15.												
				3 TAK	\$0	,	434		SNITA	SNI	300	0,		203.00
JANA JOYN	DEMUS	MANUF	JOYA JOYA	APPL 1	R. Gales	Mara	OSTAR	31/10	W 340	TIM	3872	N. S.		202
	916	1	RCR05G	1994/301.2	65 mW	75	125	20	20	1007	\$.1	.0002	10	200
	817		RCR05G	1994/301.2		***	125	20	. 20	1007	5.1	2000	g	007
	1	Cin. Elec.	377662	USAECOM	65					100%		6,2853	•	6,285
			377663	USAECOM	65					100%		6.0592	•	6.0592
	Γ	Cin. Elec.	377664	USAECOM	65					100%		3.7	•	3.7
		Cin. Elec.	377665	USAECOM	65					100%		3.7	•	3.7
		Cin. Elec.	377666	USAECOM	65					100%		10.0954	77	10.0954
		Cin. Elec.	377661	USAECOM	65					100%		4.5080	١	4.5080
Connector	Pl	Amp	2-85528-2 30p	RADC, 11/191	65					100%		.0144	.5	.0072
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X10-5 DEGREES CENTIGRADE TOTAL FALLURE RATE 3,43591

> Receive Audio Vehicular FUNCTIONAL BLOCK PAGE 2 OF 2

DATE 25 June 1973

TEMP.

DRAWING NO. 377500. Audio PAGE 2 OF

-77-

1	100 god	.0001	2000	.0002	.1743	60718				-				T	T	T		7	
	1004	-	9	10	-	1	+	+				-	+	+	+	+	+	1	1
1	3477 PA	.0019	.0002	0007	1.7436	6.0718	$\dashv$	-					1	+	+	$\dashv$			
	553	. 25	-	7		9	-							+	1				
	JA WA	10%	102 <	10% <	10%	10%								1					
	3NITAR340	5 1	10 1	101	-			-							_		-		
	OU ESCENT	0	0	0							-				_				
	O37 A9	20	125	125															
	A STAMETER	volts							 -										
	49 ° CHI @ 13	65 4			65	65			-	-		-			-				
	SPEC ABLE CABLE	<b>↓</b>	1994/301.2	1994/301.2	USAECOM	USAECOM													
	TARA	E1058~10	IRCROSCOXUS	RCR05G	376216	377667													
\$	MANUFAC.	Ì																	
ANALYSIS	TOSMUS	9	7 00	010	7 27	017													-
ZT22 AESS	W.B.		Capacitor	Real arcr	Hybrid														
7	W.B. Mai	1	<b>+</b>	+															

Transmit Audio Vehicular DATE 25 June 1973 FUNCTIONAL BLOCK TEMP.

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377500, Audio DRAWING NO.

X10-5 TOTAL FAILURE RATE . 178213

DEGREES CENTIGRADE

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'Ű	-(42 (ESS)	S AMALYS!	5 15 2												
	·w.8		1 `		378		**	43		1/4	SN			1	40
* WELL	3mm	145	TOOMUS TOOMUS	MENER	APPLICAL	- Charle	4.	13MANA VA	1	SS3100	AL PO	SZ SAT Z	O' A'	. \	308 A A
	Resistor	RIO		RCR07G562JS	199A/301.2	65	TE'S	250	0	17	19	2.1	.0002	10	.0002
		R11		RCR07G750JS	1994/301.2	65	MI MI	250	0	7	107	2.1	.0002	10	,0002
		R12		RCR07G750JS	1994/301,2	65	Ŋw	250	0	۲,	107.	4,1	.0002	10	.0002
		R13		RCR07G473JS	199A/301.2	65	I A	250	0	<b>6</b> 1	701	4.1	.0002	10	,0002
		R14		RCR076473JS	199A/301.2	65	J.	250	0	<1	10%	4.1	0005	10	0007
	Capacitor	<del>3</del>		DM5C050DP	217A/7.6-21	65	volts	300	0	15	101	د.1	.0003	15	0007
		246		DM5C390GP	217A/7.6-21	65	volts	300	0	15	107.	<,1	.0003	15	,0004
1		C47		CKR05BX102KR	1988/1001.2	65	valts	200	0	7	102	1.>	€000	5	,0002
		648		CKR05BX102KR	1988/1001.2	65	volts	200	0	7	107	1.2	.0005	5	.0003.
1		677		CKROSBX102KR	198B/1001.2	65	volte	200	0	7	10%	k.1	. 0005	r.	.0002
1		52		CKR05BX102KR	198B/1001.2	65	volte	200	0	7	107	۷,۱	.0005	5	,0002
+	Inductor	1.25	cia. Elec.		2174/7.2-9	65					107	-	.2	8.6	.172
		126	Cin. Flec.		217A/7.2-9	65					10%		.2	8,6	.172
1		127	Delevan	1025-32	217A/7.2-9	65					107		-2	8.6	.172
		1.28	Delevan	1025-32	217A/7.2-9	65					701		.2	8.6	.172
1	Transformer	74	Cin, Elec.		217A/7.2-9	65					10%		.2	10	લે
1	Diode Si	CB7	Hew. Pac.	HP5082-2800	217A/7.4-11	.228		250	0	17	10%	4.1	.21	3.5	.0735
+		CR3	Hew, Pac.		217A/7.4-11	,228	iş.	250	0	1>	10,	4.1	.2.1	3.5	.0735
	Connector	P1		51-723-000-20	RADC II/191	65					107.	-	990	• 5	.0032
7		P2		51-728-000-2d	RADC 11/191	65					10%	-	790	5.	.0032

25 June 1973 DATE

RF Fower Detector Vehicular FUNCTIONAL BLOCK PAGE 1 OF

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DRAWING NO.

TOTAL FAILURE RATE \$104430 X10-5

DEGREES CENTIGRADE

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TOTAL FAILURE RATE . 6000368 X10-5 DEGREES CENTIGRADE AT

> FUNCTIONAL BLOCK PAGE 2 OF

RF Power Detector Vehicular

377257, Filter Assembly DRAWING NO.

-80-

~	4712 ACSS	S ANALYSIS	\$ 15.												1
	'W'8				370	\	40	43.		LNA	DNI				40,
* 10	JAN N.	JOBHUS	JOS. WANTER	TAPA TAPA	APPLICA Species	STORES TO	(3MARA	Carren		253170	THE POPULATION OF THE POPULATI	2710	2/4	. \	1 20 X
	Capacitor	c15		ATC100B4R33RW	21.7	65	volte	300	5	7 7	3%	<.1	021	18	01134
		c16		DM5C130DP	217A/7,6-21	65	voits	300	0	17	32	د.1	0003	15	000135
		c17		DM5C330DP	21747.6-21	65	volte	300	ပ	< 1 ×	3.	5,1	0003	7	000 S
		C18		ATC10089R1BRW	217A/7.6-59	65	volts	300	0	7	3.	2.1	021	8	01134
		613		DM5C430DP	217A/7.6-21	65	volte	300	0	30	3%		5003	15	000135
		C2C		DMSC101GP	217A/7.6-21	65	volte	300	ပ	30	37.		0003	1.5	000135
		C21	٠	DM5C910GP	217A/7.6-21	65	volts	300	0	30	3%	٠.	C003	5	300135
		C22		DM5C910GP	217A/7.6-21	65	volts	300	0	30	3%	.1	0003	1 5	000135
		C23		DM5C330DP	2176/7.6-21	55	volts	300	0	30	37,	1.	0003	15	00013
		န္ပ		CKR05BX103KR	1938/1001.2	65	volte	100	0	24	3%	.24	. 0005	'n	9000c
		C11		CKR05BX103KR	1988/1001.2	65	volte	100	0	24	3%	.24	.0005	47	0000
	Inductor	1.5	Delevan	1025-32	217A/7.7-9	65					37.		2	8.6	0516
		F.6	Delevan	1025-32	217A/7.7-9	65					37.		.2	8.6	.0516
		1.7	Delevan	1025-32	217A/7.7-9	65					37.		.2	9.8	.0516
		1.8	Delevan	1025-32	217A/7.7-9	65					35		2	8.6	.0516
		1.9	Cin. Elec.		217N/7-7-9	65					37		.2	8.6	0516
		1.10	Cin. Elec.		217A/7.7-9	65					37.		2	8.6	.0516
	Pelay	73		GB-831C-5F	217A/7.10-S	65					3%		101	20	1515
		23		GB-831C-5F	217A/7.10-5	65					3%		10i	50	1515
		C14		CKR05BX103KR	1988/1001.2	65	veits	260	34	24	1007	.24	.0005	5	0.025
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25 June 1973 DATE

TEMP.

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Filter, Band I Vehicular FUNCTIONAL BLOCK PAGE 1 OF

DRAWING NO. 377257 Filter Assembly

\_x10-5 TOTAL FAILURE RATE . 0038585

CEGREES CENTIGRADE

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	IST E	APPLICA S	1001	5-1-6	7.7-9	9.4-1	3.4-I	217A/7.6-21														
		AAN	198B/1001.2	217A/7.7-9	217A/7.7-9	217A/9.4-11	2174/8.4-11	217A/										٠				
	•	430m	<del>  </del>																			
		MINDER	CKR05BX103KR			JAN1N4148	JAN1N4148	DM5C120DP														
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TOTAL FAILURE RATE ... 0151715 X10-5 DEGREES CENTIGRADE

Filter, Band I Vehicular DATE FUNCTIONAL BLOCK

25 June 1973

PAGE 2 OF

377257, Filter Assembly DRAWING NO.

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TEMP.

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	·#·8					10	40	, beb		IN3	SNIJ	372			402
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	Canacitor	624		ATC10083R0BRW	217A/7.6-59	65	volts	300	0	<.1	37.	2.1	021	1.8	01134
		C25		DM5C180DP	217A/7.6-21	65	volts	300	0	د1	3%	7.7	5003	15	000135
		626		DM5C240DP	217A/7.6-21	65	volts	300	0	17	3%	1.2	.0003	15	000135
		C27		DM5C130DP	217A/7.6-21	65	volts	300	0	77	3%	<.1	0003	15	000135
		C28		DM5C300DP	217A/7.6-21	65	volts	300	0	30	37.	٠,	0003	15	000135
		C29		DM5C360DP	217A/7.6-21	65	volts	390	0	30	3%	٦,	.0003	15	000135
		C30		D#5C3_0DP	217A/7.6-21	65	volts	300	0	30	33	1	0003	15	000135
		163		DM5C330DP	217A/7.6-21	65	volta	300	0	30	3%	<b>-</b> 4	0003	15	.000135
		C32		DM5C130DP	2172/7.6-21	65	volts	300	0	36	37	۲.	0003	1.5	000135
		63		CKR05BX103KR	1988/1001.2	65	volts	100	0	77	37.	.24	0005	5	80000
		C12		CKR05BX103KR	1985/1001,2	65	volts	100	0	77	3%	.24	0005	2	80000
	Inductor	1.13	Delevan	1025-32	217A/7.7-9	65					3%		2	8.6	0516
		114	Cin, Elec.		217A/7.7-9	65					37.		.2	8.6	0516
		115	Cin. Elec.		217A/7.7-9	65					33.		2	8.6	0516
		L16	Cin. Elec.		217A/7.7-9	65					37,		2	8.6	0516
		117	Cin, Elec,		217A/7.7-9	65					37.		2	8.6	0516
		1.15	Delevan	1025-32	217A/7.7-9	65					37		2	8.6	0516
	Relay	K3	Teledyne	411D-26	217A/7.10-5	65					£.		101	50	1515
		27.6	Teledyne	411D-26	217A/7,10-5	65					37.		101	50	1515
	Cenecitor	543		CKRO5RX103KE	195B/1001.2	65	volts	100	0	24	37.	,24	0005	5	80000
							:								

DATE 25 June 1973

TEMP.

FUNCTIONAL BLOCK Filter, Band II Vehicular

PAGE 1 OF 2

DRAWING NO. 377257 FILLER Assembly

TOTAL FAILURE RATE . 062526 X10-5

AT\_\_\_\_\_DEGREES CENTIGRADE

-33-

	**	301	1	2	135	135		<u></u>		1	<u>.</u>	<del></del> -	1	1	1	7	Τ	Ι'	Υ	Ţ-	
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	\	Tamara	ELA ELA	•	volts	volts				-		_	_	_						-	
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	16	AV PLICA	22.74/7.4-11	2174/7,4-1	217A/7.6-21	217A/7.6-21									:		,•				
				21	21	21							_				-	_	_		
		1984 WASHIN	JANIN4148	JAN1N4148	DM5C300DP	DM5C100DP															
	<b>`</b>	MANUFA						•													
8	Ì	NA NA																			
AKALYSI		TOSMUS	CR2	CRS	C31 '	C321															
12 ESS	·*·8	SMA.	Diede Si		Capacitor																
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TOTAL FAILURE RATE .004857 X10-5 DESREES CENTIGRADE

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Filter, Band II Vehicular

DATE 25 June 1973

TEMP.

FUNCTIONAL BLOCK FAGE 2 OF 2

DRAWING NO. 377257. FILLER ASSEMBLY

84	2712 TRESS	AMALYSES	51.5												1
*	1.	708		430,4	CABLE	40 40	431314	4313		SNI VESCENT	SNILL	3 12 L L	0)		40.30
Was.	WAN STAN	145		ANA ALM	NAS JAN	10.7	O PO	ivo	<u> </u>	80	10		<b>Y</b> y	. 1	22
	10000	633		ATC10082R0BRW	217A/7.6-59	65	volts	300	0	21	3%	2.1	021	18	91134
	17.44.2	72.5		545C130DP	217A/7.6-21	65	volts	300	0	<u>^1</u>	3%	175	0503	15	00013
		235		ATC100B9R18RF		65	velts	300	0	41	35	<.1	021	1.8	61134
		C36		ATC100B9R1BRW	217A/7.6-59	65	volts	300	0	7	37	<.1	021	18	01134
		37		DMSC100DP	217A/7.6-21	65	volts	300	a	30	3%	1.	0003	15	00013
		33		DM5C510DF	217A/7.6-21	65	volts	300	0	30	3.	1.	9903	15	00013
		වී		DM5C470DP	217A/7.6-21	65	volts	360	0	30	3%	4.	.0003	15	.00013
		070		DMSC470DP	2174/7.6-21	65	voits	300	0	30	37.	!	.0003	15	, 10013
		793		ATC100B9R1BRW	217A/7.6-59	65	velts	300	c	30	3%	7.	021	18	.01134
		010		CKRC55X103KR	1985/1001.2	65	volts	100	0	24	37	-24	0005	5	00008
		513		CKR05BX103KK	1988/1001.2	65	VOILE	109	o	24	37	.24	0005	<b>α</b> )	00008
	1000	i	Dejevan	1025-32	2178/7-7-9	65					32		2	8.6	.0516
			Cin. Biec.		217A/7.7-9	65					37		2	8.6	.0516
			Cin. Fiec.		2174/7-7-9	65					2		64	8.0	0516
		1.22	Cia. Elec.		217A/7.7-9	55					32		2	8.6	.0516
		1,23	Cin. Elec.		217A/7.7-9	65					33		7	9.0	0516
		1.24		1025-32	217A/7.7-9	65					3,4		7	3.6	0518
	0.00	3	Teledune	4115-26	217A/7.10-5	65					32		101	22	1515
	***************************************	3	Teledvile	411D-26	217A/7,10-5	65					39		101	8	1515
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2		CKR05BX103KR	198B/1001.2	59	volts	001	0	24	37	.24	0005	15	0000
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DATE 25 June 1973

TEMP.

ONAL BLOCK Filter, Band III Vehicular

FUNCTIONAL BLOCK

DRAWING NO. 377257 Filter Assembly

TOTAL FAILURE RATE . 0558875 X10

AT DEGREES CENTIGRADE

AH AL YS! S	\$15												
		*	3 TO K	100	**	434		LAGO	ONIJ	322	0		403
SOME STAND	·	BENNA LOVA	JAN SPEC.	63° (40)	MANA	SWANA SWA		0×53/10	A PO	23912	N. S.	. 1	307
		DH5C560DP	217A/7.6-21	65	velte	300	0	c1	37.	s.1	0003	15	.00001
		DMSC510DP	217A/7.6-21	65	volte	300	0	د 1	37	c,1	0003	15	000018
Cin. Elec.			2174/7.7-9	65					37		2	8,6	0516
Cfn. Elec.			217A/7.7-9	65					37,		2	8.6	0516
Cin, Elec.			217A/7.7-9	65					3%		2	8.6	9150
Cfo. Elec.	1		2174/7.7-9	65					37		2	8.6	9150
Cin, Elec.			217A/7 <sub>5</sub> 7-9	65					3%		2	8.6	0516
	Т	Janin4148	217A/7.4-11	.266	¥i	7.5	0	5	3%	1.>	23	3.5	.02415
	T	JANIN4148	217A/7,4-11	.266	¥	75	0	5	37.	1'>	.23	3,5	,02415
		ATC100B8R0BRW		65	volts	300	0	1	3%	1.	120	18	01134
		DM5C130DP	217A/7.6-21	65	volts	300	0	30	37,	.1	£000	15	00013
		DM5C100DP	217A/7,6-25	65	voits	300	0	30	3%	1.	£000	15	000135
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TOTAL FAILURE RATE . 031818 X10-5 DEGREES CENTIGRADE

DRAWING NO. 377257, Filter Assembly

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Filter, Band III Vehicular DATE 25 June 1973

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PAGE 2 OF

FUNCTIONAL BLOCK

TEMP.

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	·W:8		`		378	10		43.		JAS.	ONI				43
* rai	AMA LOVE	lognis	TOO LOOK WANTER	A SOMOLA	SPEC.	87.00.0	SWA NO	CST NA		DS3170	A JO	27/2			1 2 .
	80.00	រី			1988/1001.2	65	volta	100	1	10	102		6005	5	00025
		ឌ		CKR05BX103KR	1988/1001.2	65	volts	100	O	24	101	.24	0005	2	00025
		ខ		CKR06BX105KR	198R/1001,2	65	volte	50	0	12	197	24	0005	5	00025
		73		CKR05BX105KR	1988/1001.2	65	volts	20	0	24	107.	87.	0015	5	25000
		ಬ		DMSC101JF	217A/7.6-21	65	volts	300	0	91	101	<u>c1</u>	0003	15	5,000
		93		CKR068X334KR	1988/1001.2	65	volts	50	0	10	101	.2	6005	5	00025
		5		CKR05BX103KR	1985/1001.2	65	volts	100	0	24	191	124	0005	5	00025
		:53		DMSC101GP	217A/7.6-21	65	volts	300	0	17	193	2.2	0003	15	.00045
<b>†</b>		C52		DM5C181GP	217A/7.6-21	65	volts	300	0	7 7	107	5.1	.0003	15	5,000
		C53		CKR05BX103KR	198B/1001.2	65	volts	100	0	24	101	•24	5005	5	90025
		C54		CKR05BX103KR	198B/1001.2	65	volte	100		24	1007.	-24	0005	5	0025
		C53		CKR05BX103KR	198B/1001.2	65	volts	100	0	24	101	,24	0005	3	00025
m Asmedani	Resistor	R1		RCR676104JS	1994/301.2	65	首	250	0	-	107	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0002	10	1000
		R2		RCR07G100JS	1994/361.2	65	音	250	0	77	193	-1	0005	10	0000
		3		.2 ohm 34	217A/7.5-25	65	i i	500	0	130	107.	.26	.19	•3	.0057
-		R4		RCR076752JS	199A/301.2	65	酒	250	0	6	10.		0007	10	0007
		RS		RCR076252JS	1994/301.2	65	首	250	0	< 1	101	<u></u>	2002	9	0000
	Inductor	L1	Ferroxcube	VK200-20148	217A/7.7-9	65					101		22	8.6	172
		1.2	Cin. Elec.		217A/7.7-9	65					107		25	8.6	172
		53	Ferroxcube	VK200-20/48	217A/7.7-9	65					10,		-2	8.6	172

X10-5 TOTAL FAILURE RATE . 052555

DEGREES CENTIGRADE

Power Amplifier Vehicular FUNCTIONAL BLOCK PAGE 1 OF

DATE 25 June 1973

CRAWING NO.

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TEMP.

Inductor   La Ferroccebe   PRZ00-20/48   217A/77-9   65   107   107   12   6.6   172   1	2712 TRESS		AH AL Y S I S												
Transference   1.4   Ferroscue   Vivo   Vi	*		1								-		-		
Transference   1.29   Cita. Elec.   217A/7.7-9   65   65   65   65   65   65   65   6	· & .		\				\ \_\40	d'3	`	1/K	3N	370			*
Light Cin. Elec.   Light Cin.		Ms	- ************************************	A SA PA		•	03	13MM		305316	11842	10 1V	0	. `	700
1.29   Cfn. Elec.   217A/7.7-9   65   107   107   2   8.6     1.30   Cfn. Elec.   217A/7.7-9   65   65   107   107   2   8.6     1.31   Cfn. Elec.   217A/7.7-9   65   65   107   107   2   8.6     1.32   Cfn. Elec.   217A/7.7-9   65   65   107   107   2   8.6     1.32   Cfn. Elec.   217A/7.7-9   65   65   107   107   2   8.6     1.33   Cfn. Elec.   217A/7.7-9   65   65   107   107   2   8.6     1.34   Cfn. Elec.   217A/7.7-9   65   65   107   107   2   10     1.35   Cfn. Elec.   217A/7.7-1   65   67   107   2   347   3.5     1.36   Cfn. Elec.   377666   127A/7.4-1   65   67   107   2   347   3.5     1.35   Cfn. Elec.   377667   127A/7.4-1   65   67   107   2   347   3.5     1.35   Cfn. Elec.   377667   107A/7.4-1   65   67   107   107   107   107     1.35   Cfn. Elec.   217A/7.4-1   65   67   107   107   107   107     1.37   Cfn. Elec.   377667   107   107   107   107   107     1.35   Cfn. Elec.   377667   107   107   107   107   107     1.35   Cfn. Elec.   377667   107   107   107   107   107     1.35   Cfn. Elec.   377667   107   107   107   107   107     1.35   Cfn. Elec.   377667   107   107   107   107   107   107     1.35   Cfn. Elec.   377667   107   107   107   107   107   107     1.35   Cfn. Elec.   377667   107   107   107   107   107   107   107     1.35   Cfn. Elec.   377667   107		3	Ferroxcube	VK200-20/48	12	<u> </u>		4	- 1		1		<b>,</b>		2
131   Cit. Flee.   217A/7.7-9   65   107   107   2   6.6   131   Cit. Flee.   127   217A/7.7-9   65   131   Cit. Flee.   127   217A/7.7-9   65   107   107   1.2   6.6   1.2   1.0   1.0   1.2   6.6   1.0		. 30	-		, , , , , , , , , , , , , , , , , , , ,						101		.2	- 1	
130   Cita, Elec.   213A/7.7-9   65		277	113		217N/7.7-9	65					103		۲,		172
1.2   Cin. Elec.   2174/7.7-9   65   107   107   1.0		9	Cin. Elec.		2274/7.7-9	65		-			132	-	,		1
1.2   Cin. Elec.   217A/7.7-9   c5		131	Cin. Elec.		217A/7.7-9	65					غ				
12   Cin. Elec.   217A/7.7-9   65   107   107   107   10   10   10   10		132	Cla. Elec.		2174/7,7-9	65					13		, ,	•	
12   Cfin. Elec.   217A/7,7-9   67   107   107   107   10   10   10   10	Transformer	£-	Cin, Elec.		217A/7.7-9						13		,	ی اہ	.
T3   Cin, Elec,   11/4/165   11/4/1645		77	Cine Biec.		217A/7.7-9								,	2 2	7, 0
CR5		13	Į		227X/7c7-9	39					3 5		,	2 5	7 ,
CR5   1NA145   1NA145   1NA145   428   467   100   20   20   107   2   347   3.5   1.5	Diode 5!	<u>CB1</u>		184148	2174/5.4-11	•	譜	103	20	20	3	,	2/,7	7 7	, ;
A1         Cin. Elec.         377686         USAECOM         65         10%         10%         1.1583		CR5		1N4148	217A/7.4-11	.428	*	100	20	20	<u> </u>			•	
A2         Cin. Elec.         377687         USAECOM         65         10%         10%         1.1553            P2         Microdot         141-1305-6001         RADC II/191         65         10%         10%         3.1892             P3         Microdot         141-1305-6001         RADC II/191         65         0         10%	Hybrid	VI		377686	USAECOM	65					3 2		)		571.
File   Microdot   141-1305-0001   RADC   II/191   65   107   107   107   1064   .5		A2	Cin. Elec.	377687	USAECOM	65					1 2		1523	,	¥91;
P2         Amp         £5930-4         20         10° </td <th>Connector</th> <th>.i.</th> <td>Microdot</td> <td>141-1005-6001</td> <td>RADC 11/191</td> <td>65</td> <td></td> <td></td> <td></td> <td></td> <td>غ اخ</td> <td></td> <td>3.1892</td> <td>•</td> <td>3180</td>	Connector	.i.	Microdot	141-1005-6001	RADC 11/191	65					غ اخ		3.1892	•	3180
P3         Microdot         141-1005-0001         RADC II/191         65         107         107         .0103         .5           P3         Microdot         Microdot         RADC II/193         65         10         10         10         .064         .5           R6         RCR07 JS         1994/301.2         65         10         10         10         10         .0         10         .0         <		P2	Атр	85930-4 20 pts	RADC 11/191	65					و او		760	٠, ١	.0032
P.4         MCDDI-9F465-150         65         EACTION         65         65         EACTION         65         65         EACTION         65		3	Microdot	141-1005-0001	RADC 11/191	65					3 5		2010		0000
R6         RCR07 JS         1994/301.2         65         ms         250         0         10         10%         4.1         6002         10           R8         RCR07 JS         1994/301.2         55         ms         250         0         10         10%         4.1         6002         10           R9         RCR07G42JS         1994/301.2         65         ms         250         0         10         10%         4.1         0002         10		7			RADC 11/191	6.5					100		00618	٠, ١	6032
RCR07 JS         199A/301.2         55         mW         250         0         10         10°         10	Resistor	E.			1994/301.2	65	清	256	0	2	3 6	ł	5003	: 5	
RCR07G122JS         199A/301.2         65         mW         250         0         107         <.1         0002         10           RCR07G47JS         199A/301.2         65         mW         250         0         10         107         <.1		R7		RCR07 JS	199A/301.2	55	NE.	250	0	101	107	• •	7000		Zaga
ACR076492JS 199A/301.2 65 will 250 0 10 107 < 1 0000 10		888		RCR07G12235	1994/301.2	65	j <u>k</u>	250	0	10	107	1	0000	T	
		R9		ACR076482JS	199A/301.2	65	i di	25c	0	0.	191	-	500	7	6000

DATE 25 June 1973 FUNCTIONAL BLOCK TEMP.

Power Amplifier Vehicular PAGE 2 OF

DRAWING NO. 377255. POWER AMBILLIER

DEGREES CENTIGRADE TOTAL FAILURE RATE . 215256

-38-

4	CTIE RESS	S ANALYSES	\$ 25.3												
	W. O.				378	1	- x	434		JAS	SNI	324		3	10,
* Wax	TANA	26	DEMIS SUMM STANIA	JOHN WINDE	O I JAAN O I JAAN	raide to	d'a	SWA KED		DS3170	AA340	SIRES	O 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. \	102
	Rest	R10		RCR07G103JS	199A/301.2	<u> </u>	A) El	250	1	7	10%	1			000
		RII		RCR07G513JS	1994/301.2	65	Min	250	0		5	7.7	.0002	13	0002
		R12		RCR07G513JS	1994/301,2	65	ide:	250	0	2	191	7.7	.0002	10	0002
	Inductor	1.33	Cie. Elec.		217A/7.7-9	65					10%		,2	8.6	177
		134	Delevan	1025-32	217A/7.7-9	65					10%		2	8	172
		135		1025-32	217A/7.7-9	65					107		2	8	177
		137		1025-32	2174/7-7-9	65					107		2	8.6	172
SINE	SINTA Trensistor	10		JAN2E2222A	217A/7.4-13	.228	ME	500	0	.1	201	1.>	210	8	168
+	Hybrid	53	Cin. Elec.	377688	USAECOM	65					701		,6902		0690
1	Co res	54	Microdot	141-1005-0001	RADC 11/191	65					107		790	.5	.0032
		P6	Microdot	141-1005-0001	RADC 11/191	65					107.		,064		0032
		72	Selectro	51-751-0000-2	RADC 11/191	65					10%		,064	.5	.0032
+		P8	Selectro	51-751-0000-2	RADC 11/191	65					107.		790°		,0032
+	Registor	R13		RCR07JS	1994/391.2	65	. Mail	250	0	17	107	1'>	,0002	10	0005
+		R14		RCR07JS	1994/301.2	65	i ja	250	0	10	10%	1.>	.0002	10	2000*
<del> </del>		212		RCR073S	1994/301.2	65	집	250	0	10	.10%	1.>	.0002	10	2000
	Relay	ξ.		GB-831C-5E	217A/7,10-5	65					1001		301	50	5.05
+		K8		GB-831C-5E	217A/7,10-5	65					1007		018	50	6
+		К9		GB-831C-5E	217A/7,10-5	65					10%		301	50 1	.505
										•••					

DATE 25 June 1973

FUNCTIONAL BLOCK Power Amplifier Vehicular PACE 3 OF

377255. Power Amplifier DRAWING NO.

TOTAL FAILURE RATE 1.839402 X10-5

DEGREES CENTIGRADE

-89-

57)	RESS ARALYSIS	HALYS	- S												
'W.O.	344	room	WUFAC.	14)	3 Te vol 7	23.00	\$ 87	ST. JAN		LESCENT.	3NILVA	3720	1		20700
(A)	1	3	4	na ra			'AND	NA SA		)40 	170	15	N.S.	<b>\</b>	2
Capacitor	+	5		Y104A-20	217A/7.6-81	65	volts	20	20	07	1007	2.	0065		0065
	9	23		Y\$03A-20	217A/7.6-81	65	volts	20	10	2	1007	15	0065	,	0065
	2	2		B155A-05	217A/7.6-81	65	volts	15	10	10	1007	.75	63		63
	٥	उ		B155A-05	217A/7.6-81	65	volts	15	10	01	1007	25.	63		93
	٥	3		Y154A-05	2174/7.6-81	65	volts	20	01	01	1007	2	10065		.0065
Registor	+	R.		RCR05 JS	1994/301,2	65	T.	125	17	1 >	100%	2.2	5005	2	002
	82	<b>K2</b>		FCR05 JS	1994/301.2	9	音	125	7 7	7 7	1007	1:1	0007	01	007
Inductor	1	17	Lenox Fugle	NR-22	217A/7.7-9	65					1001		.2	8.6	1.72
	-7	7 97	Lenox Fugle	NR-22	217A/7.7-9	65					1001		-2		1,72
	1	17 12	Lenox Fugle	NR-3.9	217A/7.7-9	65					1001		-2	8.6	1.72
	1	1.8	Lenox Fugle	VR-12	217A/7.7-9	65					1002		.2	8.6	1.72
			Lencx Fugle	4R-22	217A/7.7-9	65					1007		.2	8.6	1.72
	1	110	Lenox Fugle	NR-10	217A/7.7-9	65					107		.2	8.6	.172
	-	7 117	Lenox Fugle	NR-3,3	217A/7.7-9	65	_				101		.2	8.6	.172
Transformer	Prper T1	+	Cfr. Elec.	377354	217A/7.7-9	65					1000		.2	1.9	2
	2	+	Gfo. Flec.	377355	217A/7.7-9	65					1001		.2	2	C1
	13	_	Cin. Elec.	377353	217A/7.7-9	65					1007		.2	21	C1
	7.4	1	Cio. Fiec.	377355	2174/7,7-9	65					1003		. 2	10	2
	15	_	Cin. Elec.	377352	217.77.7-9	65					1001		.2	10	23
	Tf	$\neg$	Cin. Elec.	377355	217A/7.7-9	65					0,0		,	2	2

DATE 25 June 1973 TEMP.

RF Modulator Vehicular FUNCTIONAL BLOCK

FAGE 1 OF -90-

377350, Synth/RF Modulator DRAWING NO.

X10-5 TOTAL FAILURE RATE 2, 10275

DEGREES CENTIGRADE

•	CIES CHESS	S AKALYSIS	\$18													
	.w.o.				3 %	l	8	8.		*12	24	375		1		1
· ROLL	SMA LANG.	DANKS	MANUE	TAPA TAPA	Special Contraction	B	SAN SAN	ST SWAN S		3053/10	11 A9390	25 3612 20 71 VG	O. V.		101	
	Transformer	7.7	Cin. Elec.	377356	217A/7.7-9	<b>\_</b>					101		١ ا	1 -	,	<b>\</b>
	Hybrid	HYZ	Cin, Elec,	377677	USAECOM	65					1002		12 9570		7,0 6,1	<u>۾   </u>
		HY¢	Cin. Elec.	377675	USAECOM	65					33%				1737	<del>}</del>
		HYS	Cin. Flee.	377675	USAECOM	65					337		.5264		1737	4
		HY6	Cin. Elec.	377675	USAECOM	65					33%		.5264	,	1737	<del></del>
		HY7	Cin. Flec.	377676	USAECOM	65					1007		.6762		6762	
	Cepacitor	C15		Y474A-29	217A/7.6-81	65	volts	10	5	5	1001	2	.0065		0065	
		616		CKR05BX102KR	1988/1001.2	65	volts	200	5	5	1007	4.1	0005	2	0025	<u>, , , , , , , , , , , , , , , , , , , </u>
		C17		CKR05BX102KR	1988/1001,2	65	volts	200	5	5	1907	2,1	.0005		.0025	·
		613		Y474A-20	217A/7.6-51	65	volte	16	5	5	33%	2.	.0965	,	0022	<u> </u>
		613		Y474A-20	217A/7.6-81	65	Volts	10	5	5	33%	.5	0065	,	0022	1
		020		Y474A-20	217A/7.6-81	65	volts	10	47	5	33%	.5	5960	,	0022	ــــــــــــــــــــــــــــــــــــــ
	Recistor	22		RCROS JS	1994/301.2	65	香	125	<1	1>	1001	<.1	0007	10	002	
		R.7		RCE05102JS	1994/301.2	65	音	125	< 1	1-	1007	4.1	003	10	002	
-		RS		RCR05102JS	199A/301.2	59	音	125	<1	17	1007	1.7	200	10	200	
1		22		RCR05103JS	1994/301.2	65	酒	125	<1	15	1007	2,1	002	10	200	
		R10		RCR05103JS	1994/301.2	65	清	125	<1	<b>د</b> ا	1001	L.1	002	10	002	•
		TIZ		RCR05103JS	1994/301.2	65	*	125	77	12	1007	7.7	. 002	10	002	, 
		812		RCR05102JS	1994/301.2	65	音	125	13	4	1001	<.1	002	10	005	,
		R13		RCR05102JS	199A/301.2	65	7	125	7	7	10.00	7 1 7	200	9	20,0	1

TOTAL FAILURE RATE 1.437934 X10-5 DEGREES CENTIGRADE

> FUNCTIONAL PLOCK PAGE 1 OF -91-

DRAWING NO.

RF Modulator Vehicular

Z712 RESS	HANALYSES	Sis												
.4.8		`		370	40		43,		1N3	ONL		0		407
Jaro Laro	roomis	MANUS ASSERT	MART	APPL CA	N. Care Y	3mara	O31 NA		\$4340 \$53170	TIM	SYAT S	× × ×		301
<b>'</b>   .			21 7015000	1994/301.2	65 1	· 音	100	-	5	1001	<.1 <	.0002	10	730
Resistor	K10	0.0000	376152	RADC 11/413	5					1007		1.512	٠	212.1
JOE LATERAL	<del></del>	200	377079	USABCOM	65					100%		5460		5440
Resistor	81.8		RCRO5 JS	1994/301.2	65	1	125	17	7.1	1002	77	6303	10	200
	01.0		RCRO5 JS	1994/301.2	65	급	125	12	77	1007	4	.0002	10	005
Connector	7.1	Arap	85930-4 20p	RADC 11/191	65					100		5103	~	.00515
	2.3	Wicrodot .	141-1005-0001	RADC 11/121	65					100		064	~	220
	2	Microdot		8ADC 11/191	65					1002		954	2	.032
Tr. 18 former	45		377357	217A/7.7-9	65					5		C1	2	C1
Diede Var	CEI		DKV6523B	Cin, Elec.	65					1003		٠.,		2
1	6		nev69238	Cin. Elec.	65					1001		C		C .
	3		DKV5524B	Cin. Elec.	65					1001		C.	١.	0
	78		DKV6524B	Cin, Elec.	65					1007		ن -1	•	0
	3.5		DKV65248	Cfr. Elec.	65					1007		ت		<u>ت</u>
	CR6		DKV6524B	Cin, Elec.	65					1007		0-1	•	2)
	3		DKV6524B	Cin. Elec.	\$5					1007		0		<u>.</u>
	(S)		DKV6524B	Cin. Elec.	65					1003		0.		ات
	CR9		0次7.652.48	Cin. Elec.	65					C01	_	-		0 1
	CERTO		DKV6524B	Cin. Fles,	65					100%		=		071
	CR11		DKT/5524B	Cin. Elec.	65					1001		ات		C

TOTAL FAILURE PATE 1.335315 X10.5

FUNCTIONAL BLOCK RF Mod.lator Vehicular PAGE 3 0F 4

DATE 25 June 1973

DRAWING NO. 327350, Synth /SE Modula

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301 Today & 31181 FAITURE 0/1/1/ q 223912 \*Do wa 1007 SWILL WAS NO LNGSSZINO CHAPED BALBANGE . (King of the Control 40 65 JAPPI JOHER Cin. Elec. 438MIN 25 June 1973 TAPA CKC16524B A34'U1 MANUEAC DATE TRESS ANALYSES YOSHUS **CR12** 3mn Stode, Var. TAPA 

X10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE . 10 Modulator Vehicular PAGE 4 OF 4 DRAWING NO. 377350, Synth/RF Modulator

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STOCK STOCK

FUNCTIONAL

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¥. <sub>B</sub>		\	378	*		43.		٠ ٢٨٤	24/	ر ک			4
Dans man	MANUE	Java Lava	APPLICATE STATE	¥.040.7	SW4 VO	13m		10531NO	TA A 3 40	223942 C) 11 VO	0,10	. 🔪	200 d 3
apacitor C7	Comp. Inc.	Y104A-20	217A/7.6-81	65	volte	20	~	10	1000	1		3 '	700
cs S		Y104A-20	217A/7.6-81		volta	20	15	15	100	, ,	63.05	ر،	o I
60		Y104A-20	217A/7.6-81	65	volte	20	53		100	2 %	3 5	•	7 6
C10		Y104A-20	217A/7.6-81	65	velte	20			100	-	2700	•	
Resistor R4		RCR05G	199A/301.2	65	语	125	2	2	100	- V	0000	-	2000
R5		RCR05G101JS	1994/301,2	65	3	125	20	5	0	9	0000	2	2 6
R6	•	RCR05G	1994/301.2		音	125	-	-	100	-	000	9	3
d d d		RCROSSI 14.18	1994/301.2		3	_	-			7	2000	?	6
Inductor L2 L	Lenox Fugle	NR22	217A/7.7-9	-		_		4	201	1	,		;
13 17	Lenox Fugle	NR22	217A/7.7-9	65	<b> </b>				0.		,		7, 1
Int. Circuit 101 C	CTS Knighte	376153 TCXO	RADC 11/413	65					100		1 2000	0	3000
102		Ref. 4/4 N	USAECOM	65					100		3.7		
Resistor R20		RCRO3 JS	1994/301.2	65	*	125	-	-	601		000	2	600
Capscitor C11		/104A-20	217A/7.6-81	9	volte	70	9	2	6	4 -	0065	,	2005
C12		G106A-20	217A/7.6-81		voite	52	5.6	5.6	E S	3 6	5 6		600
C13	•	S685A-20	217A/7.6-81	65	Volte	35	20	. 0	108	53	10		; a
C14		X104A-20	2174/7,6-81	65	volte	25	15	15	1003	1 2	6		5
53		Y104A-20	217A/7.6-81	65	velte	20	10	2	100	5	.0065		.0065
		Y104A-20	217A/7.6-81	65	volte	707	12	15	1003	7	53		5

TOTAL FAILURE RATE \$5176 X10

AT\_\_\_\_\_DEGREES CENTIGRADE

PAGE 1 OF 2 DRAWING NO. 377350, Synth/RF Madulator

DATE 25 June 1973 Synthesizer Vehicular

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FUNCTIONAL BLOCK

TEMP.

W.B. WAI		`	`	•		\	/	1			Į.			1
	``	`	\	376		\	4.	`	\ \ \	ر عه	٠ ۶ ۲	`		<b>,</b>
<del> </del>	iosius	MANUS A	HAPA HAPA	Papi ICAS	O COUPY	O OT	31 31 NAGA		3353170	117 A93 90	553815	0,1	. \	3004 1
Capacitor	C23		Y103A-20	217A/7.6-81	65	20100	J. ``	-	1.	100	L		- 1	
Resistor	R14		BCB05010/. 10	1664/301 2	1		3 6	3	74.	1001	1	2900	•	300
	R15		9CB05G106.16	1997/3017	5 5	<b>a</b>	7	<u>.</u>	3	200	7	000	9	S
Toductor	1		Cotto Consultation	7010074265	65	X.	173	1,3	7	1001	77	0.002	9	200
TOTOTOTO	3	renox rugre	2788	217A/7.7-9	65					100%		.2	8.6	1.72
	51	Lenox Fugle	NR22	217A/7.7-9	65					1007		.2	8.6	1.72
Hybrid	HX1	Cin. Elec.	377678	USAECOM	65					1002		1. K700		1.5.3
Capacitor	C24	Comp. Inc.	S156R-20	217A/7.6-81	65	volts	20	10	10	100%	5.	.0065		2006
	C25	Comp. Inc.	S156R-20	217A/7.6-81	65	volts	70	01	10	100	٠.	.0065		.0063
	C26	Comp. Inc.	L336R-20	217A/7.6-81	65	volts	20	10	19	100	5.	.0065		0065
	C27	Comp. Inc.	L336R-20	217A/7.6-SI	65	volts	20	01	10	1007	3.	.0065		0065
	C28	Comp. Inc.	L336R-20	217A/7.6-31	65	volts	20	1.0	10	1002		.0065		0065
	C29	Comp. Inc.	L336R-20	217A/7.6-81	65	volts	20	10	10	1003	3.	5900		0065
	C30	Comp. Inc.	S226R-20	217A/7.6-81	65	volte	20	91	10	1002	٠.	2900		0065
	C31	Comp. Inc.	S226R-20	217A/7.6-81	65	volts	20	16	10	1000	5.	0065		0065
	F.6	Cin, Elec.	55017/AS	217A/7.7.9	6.5							~	9 8	1 23
	17	Cin, Elec.	LF10191	217A/7.7-9	65								4	1 2
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X10-5 TOTAL FAILURE RATE 1.1×1:11 DEGREES CENTIGRADE

Synthesizer Vehlcular DATE 25 June 1973 FUNCTIONAL BLOCK PAGE 2 OF 2

DRAWING NO. 377350, Synth/RF Modulator

-95-

TEMP.

	*	201	00100	0065	5255	7,00	15.56	7								T	T	
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	374	S) Jaak	217A/7.6-81	217A/7.6-81	2174/7.4-11	RADC 11/191	USAECOM	217A/7,12-3	2174/1.12-3	217A/7.12-3	217A/7.12-3	2174/7.12-3						
		A SOMON A SOME A SOMON	U103R-10	U104R-10	JAN1N4148	MCDD1-25P6A1	377691	376048	37604B	376048	376048	376048						
1313		Soonus Soonus				Mirrodot												
ILSS ANALYSIS		"MS	ច	2	CRI	1d	II	150	252	D53	054	D55						
<u> </u>	W.8.	JAN A HOLL	Capacitor		Diode Si	Commector	Hybrid	Pin Light										
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TOTAL FAILURE RATE 5.116724 X10-5 OATE 25 June 1973

Frequency Control Vehlcular FUNCTIONAL BLOCK PAGE 1 OF

DEGREES CENTIGRADE

-96-

TEMP.

DRAWING NO.

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	112 RES	NY S	RESS ANALYSIS												
	'W.			43	3 Jays		*	4313	1	LASS	SAIL	300	1 0		1050
rai	WA OF O	"	SHOW SHOWS	SMIN LOVE	Jady Jady	RY GUEL	WAR.	O31 NA	•	531/20	A 340	3472	1/4	. `	30.
	Resistor, Var	RI	Allen Bradle	Allen BradleyCS1T048F103AA	217		Watts	0.5	1,	١,	100%	7		5	15.c
	Switch	51		376027-1		65							0.1		396
		52		376027-2	RADC_1:/217	65					1007		٠,٠	,	
		83		376029	RADC 11/217	65					.5.		. 21		0.00
		24	Grayh111	30-251B	PADC 11/217	65					100%		3		(a)
	Connector		Microdot	142-1002-0001	RADC 11-191	65					1001		.064	s.	.632
			Microdat	142-1002-0001	RADC 11-191	65					10%		,064	٠	.0032
			Microdot	142-1002-0001	RADC II-191	65					107,		790	٠	.0032
			Microdot	142-1002-0001	RADC II-191	65					102		796.	٠.	.0032
			Microdor	142-1002-0001	RADC 11-191	65					100%		,064	٠.	.032
			Microdot	142-1002-0001	RADC 11-191	9.5					90%		790	5.	.0258
			Microdot	142-1002-0001	RADC 11-191	6.5					10%		950		.0032
			Microdot	142-1002-0001	RADC 11-191	65					907.		790°	٠.	.3289
			Micredot	142-1002-0001	RADC 11	6.5					6ل،		.064	٠.	4F.Sn.
			Microdot	14.2-1002-0001	RADC II-191	65					107		,064	۲,	.00.32
			Microdot	142-1002-0001	RADG 11-191	65	<del>-  </del>	Ì			167		•90•	.5	.0032
			Microdot	142-1002-2001	RADC. 11-191	65					10:		.664	ξ,	.0032
				377103 33p	RADC 11-191	.9	-+	1			1007		0214	5.	۰010
			I.T.T. Can.	ES-C-211489 5p	RADC 11-191	6.5					100%		.1600	5.	.0015
				377141 6p	RADC 11-191	63		-			1007		4.200	,	200

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TOTAL FAILURE RATE . 552491 X10-5

DEGREES CENTIGRADE

DRAWING NO. 377106. Chassis Assembly

PAGE 1 Jr 2 -97-

Chassis Assembly Vehicular

FUNCTIONAL BLOCK

DATE 25 June 1973

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JAMEN NOW IN		SAN SAN SAN SAN SAN SAN SAN SAN SAN SAN	A A A A A A A A A A A A A A A A A A A	No. Jays	ST. CHOIL	313mer	QJI V		(3)531/N	ALL ALL	25 3813 20 70 V		. 1	6788
Connector			116-612/11		+		8	1		0		·	- 1	2
Swetteh			0/21/-00	161-11 7000	65	1				1001	1	064	٠,	032
	2		376029	RADC, 11/217	65			1		.5%		2.1	2	00105
	26		51HX 23029-3AF	RADC 11/217	6.5					1001		1 8		
Fuse		Little Puse	277-004   217A/7,12-3	217A/7,12-3	65					1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		96.7	1	500
Dirze			116NI	2174/7.4-11	25.5	1	1	,	1	_	1	+	•	
Resistor			Brans, 03 to	1000, 1000		- -		7	7	201	1.7	233	3.5	5255
			nemero roza	19%4/301.2	6,	Į.	125		2	1001 K	.1	2000	01	005
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> PAGE 2 OF -98-

FUNCTIONAL BLOCK

DRAWING NO. \_\_377100, Chassis Assembly\_

Chassis Assembly Vehicular

25 June 1973

DATE

AESS	SANALYSIS	YSIS								,		•		
ų			43	3 TRVS		40	4313		1A3DS	SAILE	300	0		40.70
Plan A	25	SPAN TO SPAN T	SHOW	Jags Jags	S. deso.	TANK OF THE PROPERTY OF THE PR	O37 AG	•	*300 300	A PO	3912	13	. `\	301
Cepacitor	93	Comp Inc.	L336R20	217A/7.6-81	65	volta	9	S	'n	1002	<del>/ ```</del>	039		039
	5	Comp Inc.	F305R-20	217A/7,6-81		volte	9	5	5	100%	: •	039		039
	3	Comp Inc.	F305R-20	217A/7,6-81	65	volts	9	Ę,	5	1007		039		039
	కు	Comp Inc.	F305R-20	217A/7.6-81	65	volts	9	5	\$	100%		039	•	039
	C10	Comp Inc.	M106R-20	217A/7.6-91	- 1	volts	9	0	7	100%		023	,	023
Inductor	23	Cin. Elec.	377556	217A/7.7-9	65					100.		2	10	2
Transformer	23	Cfa. Elec.	377553-1	2174/17-9	65					1007		7		2
Ī	13	Cin, Elec,	377553-2	217A/7,7-9	65					1001	•	2		2
	22	Cin. Elec.	377657	RADC 11/413	65					100%		3264		3.3264
S.1	CR3		1N5802	2174/7.4-11	.315	emps	2.5	, 12	,12	1007	870°	048455	1.2	5.46
Piode Si	CR4		1N5902	2174/7,4-11	366	€ E	2.5	,25	.25		. 1.	542	12	6, 51
Resistor	2		RW81U2ROOF	217A/7.5-15	65	watts	~	.04	. 044		. 1. >	7800	50	435
	R4		RW81U1R50F	217A/7.5-15	65	Watts	1	.1	***	7001	.1	.0087	_	435
	23		377656	RADC 11/413	65					1003	~	7.1164		2.1164
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DEGREES CENTIGRADE TOTAL FAILURE RATE 2,44622 4 & 5 Volt Regulators Vehicular 25 June 1973 DATE FUNCTIONAL BLOCK

DRAWING NO. 377550, POWER SUPPLY

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PAGE 1 OF 1

Capacitor   C3	### ### ### ##########################	24 24 1007 05 05 05 05 05 05 05 05 05 05 05 05 05	TAILURY A ROLL
Separation   Company   C	### CL67BJ4704PG 217A,7.6-47 65 volts 75  #### CC4  #### CC4  ##### CC4  ##### CC4  ####### CC4  ##########	24 24 1007 10 10 1007 10 10 1007	
Colored Colo	Or L2 Cin. Elec. 37755-2 217A/7,6-81 65 volte 15 ormer T1 Cin. Elec. 377552 217A/7,7-9 65 5 cormer T1 Cin. Elec. 377552 217A/7,7-9 65 5 cormer T1 Cin. Elec. 377552 217A/7,7-9 65 5 cormer T1 Cin. Elec. 377552 217A/7,7-9 65 5 cormer T1 Cin. Elec. 377552 217A/7,7-9 65 cormer T1 Cin. Elec. 377552 217A/7,7-9 65 cormer T1 Cin. Elec. 377552 217A/7,7-9 65 cormer T1 Cin. Elec. 377552 217A/7,7-9 65 cormer T1 Cin. Elec. 377552 217A/7,7-9-11 .33 empe 2.5 cormer R2 RW81U1R00F 217A/7,5-15 65 wette .1 cormer R2 RW81U1R00F 217	10 1007	323 5
Colored Colo	CS	10 1007	. 02
Inductor   1.2   Cin. Elec.   37755-2   217A/7.7-9   65   1002   1002   2   10   2     Inductor   1.1   Cin. Elec.   37755-2   217A/7.7-9   65   1002   2   1002	orner         L2         Cin. Elec.         37755-2         217A/7.7-9         65           orner         T1         Cån. Elec.         377552         217A/7.7-9         65           si         CR2         377658         RADC 11/413         65         215           si         CR2         JANIN5802         217A/7.4-11         337 amps         2.5           cor         R1         RW81U1R00F         217A/7.5-15         65         watta         1           si         CR5         JANIN3611         217A/7.5-11         32         amps         1	100	- 70
No.	Si CR2 377552 2174/7,7-9 65  Si CR2 3ANIN5802 2174/7,4-11 337 empe 2,5  or R1 RW81U1ROOF 2174/7,5-15 65 watte 1  Si CR5 JANIN3611 2174/7,5-16 63 watte 1  Si CR5 JANIN3611 2174/7,4-11 32 amps 1		10
Mail   St   Cra.   Elec.   171656   Elic.   11/4/13   65   11/4/13   65   11/5   1007   11/5   11/5   1007   11/5   11/5   11/5   1007   11/5   11/	Si CR2 377658 RADC 11/413 65  Si CR2 3ANIN5802 217A/7.4-11 337 amps 2.5  cor R1 RW81U1R50F 217A/7.5-15 65 watts .1  Si CR5 JANIN3611 217A/7.5-16 32 amps 1  Si CR5 JANIN3611 217A/7.4-11 32 amps 1	100%	10
Realistor   R1	Si CR2	1001	2,
Radistor   R1	R1 RW81U1R00F 217A/7.5-15 65 wetta .1  CR5 JAN1N3611 217A/7.4-11 .32 amps 1  CR5 JAN1N3611 217A/7.4-11 .32 amps 1	5 175 1002	.433 12 5.
Diode, S1	S1 CR5 JANIN3611 217A/7.5-15 65 watta I  S1 CR5 JANIN3611 217A/7.4-11 .32 amps 1  CR5 JANIN3611 217A/7.4-11 .32 amps 1  CR5 JANIN3611 217A/7.4-11 .32 amps 1  CR5 JANIN3611 217A/7.4-11 .32 amps 1	.1 < .1 100% <	50
Diode, Si CR5   JANIN3611   217A/7,4-11   .32 amps   1 0 0 1007   1.269   3.5	S1 CR5 JANIN3611 217A/7,4-11 ,32 amps 1	> 1001 220°.	, GG87 50 .
TEMP.   DATE 25 June 15/3   TOTAL FAILURE RATE 1,395/33   PAGE 1 OF 1   DEGREES CENTIGNADE		0 1007	.269   3.5
TEMP. DATE 25 June 1973 FUNCTIONAL BLCCK 10 Volt Regulator Vehicular PAGE 1 OF 1  AT DEGREES CENTIGRADE			
TEMP.  DATE 25 June 19/3 FUNCTIONAL BLOCK 10 Volt Regulator Vehicular  PAGE 1 OF 1  AT DEGREES CENTIGRADE			+
TEMP. DATE 25 June 1973 FUNCTIONAL BLOCK 10 Volt Regulator Vehicular PAGE 1 OF 1			
TEMP.  DATE 25 June 15/3 FUNCTIONAL BLOCK 10 Volt Regulator Vehicular  PAGE 1 OF 1  AT DEGREES CENTIGRADE			
TEMP.  DATE 25 June 19/3 FUNCTIONAL BLOCK 10 Volt Regulator Vehicular PAGE 1 OF 1  AT DEGREES CENTIGRADE			-
TEMP.  DATE 25 June 1973  FUNCTIONAL BLOCK 10 Volt Regulator Vehicular  PAGE 1 OF 1			
TEMP.  DATE 25 June 1973  FUNCTIONAL BLOCK 10 Volt Regulator Vehicular  PAGE 1 OF 1			
TEMP.  TEMP.  TOTAL FAILURE RATE 1,39933  FUNCTIONAL BLOCK 10 Volt Regulator Vehicular  PAGE 1 OF 1			
TEMP. TOTAL FAILURE RATE 1,39933 FUNCTIONAL BLOCK 10 Volt Regulator Vehicular PAGE 1 OF 1			
FUNCTIONAL BLOCK 10 Volt Regulator Vehicular	DATE 25 June	FAILURE RATE 1	
	FUNCTIONAL BLOCK 10 Volt Regulator	DEGREES	

Color   Colo	2(12	12 STRESS	S ANALYSIS	Y\$15	•			!			•	1				
Precion   City   Processionary   Processiona		·w.8				376	/	\ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		4NS	ON,				4
C	May		"Mis			APPLICA,	a de la companya de l	Nova Dava	AN TEN		DS.	UN TO		0,1	. `	301
C1 C1 C1 C12612-20 2174/7.6-81 65 volts 50 24 24 1007 48 0055 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	*pacitor	CJ		CKRO	1988/1001.2	2	<del></del>	100	1 :	24	1001	,24	0005	2	\$ 500.2
C11         22612-20         217A/7.6-81         65         volte         10         5         5         1007         .5         1007         .5         1007         .5         1007         .5         1007         .5         1005         .5         1007         .5         1005         . 1         .0         .0         .5         5         1007         .75         .0         .         .         .         .0         .5         .1         .0         .7         .0         .2         .0         .0         .5         .1         .0         .7         .0         .2         .0         .0         .2         .0         .0         .2         .0         .0         .2         .0         .2         .0         .0         .0         .2         .0         .2         .0         .2         .0         .0         .2         .0			2		439003/01-2379	217A/7a6-81	65	volte	50	26	77	1007	89	6500	•	20059
C13 F105R-20 217A/7.6-81 65 volts 20 15 15 1007 7.75.03			113		122612-20	217A/7.6-81	W	volta	10	2	3	1002	~	2900	٠	2700
C14 F105R-20 217A/7.6-81 65 volts 20 15 15 1007, .75,03  C15 L106R-20 217A/7.6-81 65 volts 20 15 15 1007, .75,03  C16 L106R-20 217A/7.6-81 65 volts 20 15 15 1007, .75,03  C17 C18 L106R-20 217A/7.6-81 65 volts 20 15 15 1007, .75,03  C18 C10 E1ec, 217A/7.6-81 65 volts 20 15 15 1007, .75,031  C19 C10 C10 E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .25 100 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 100 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C11 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C12 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C13 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C14 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C15 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C17 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C18 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C19 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 05 01 1007, .2 10 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 377555-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 65 01 1007, .2 10 2.  C10 C10, E1ec, 37755-4 217A/7.7-9 6			C12		122612-20	217A/7,6-81		volte	10	2	\$	1007	2,	\$960	•	900
C15			c13		P105R-20	217A/7.6-81		volts	20		15	1001		.03	•	,03
C16			C14		F105R-20	217A/7.6-81	5	volts	20			1001	.75	.03		603
C16			615		L106R-20	2174/7,6-81	59	volte	2.0			1001	.75	03	•	.03
C18 C18 C18 C1803BX164KR 1988/1001.2 65 volte 50 42 42 1007, .84,0.6 5 1			<b>C16</b>		L106R-20	217A/7.6-81		volte	20			100%	,75	.03	٠	.03
CIB CIROSBXIGGARR 198B/1001.2 65 volte 50 42 42 1007, .84,066 5  CIP CIP CIRO. Elec. 377555-3 217A/7.7-9 65			c17		K155R-20	217A/7.6-81		volts		20	0	100%	.57	.011	•	110.
C19         CKRO5BX104KR         198B/1001.2         65         volte         50         42         42         42         1007         .84, 006         5            L4         Ctn. Elec.         377555-3         217A/7.7-9         65         2         1007         .2         10         2           L5         Ctn. Elec.         377555-4         217A/7.7-9         65         2         1007         .2         10         2           L7         Cin. Elec.         377555-4         217A/7.7-9         65         2         1007         .2         10         2           L8         Cin. Elec.         377555-5         217A/7.7-9         65         2         1007         .2         10         2           L1         Cin. Elec.         377555-5         217A/7.7-9         65         2         1007         .2         10         2           L6         Cin. Elec.         377555-1         217A/7.7-9         65         2         1007         .2         10         2           L7         Cin. Elec.         377555-4         217A/7.7-9         65         2         1007         .2         10         2           C86         5R0 </td <td></td> <td></td> <td>618</td> <td></td> <td>CKR05BX164KR</td> <td>1988/1001.2</td> <td></td> <td>volts</td> <td>50</td> <td>42</td> <td>42</td> <td>1007.</td> <td>.84</td> <td>900</td> <td>~</td> <td>6:5</td>			618		CKR05BX164KR	1988/1001.2		volts	50	42	42	1007.	.84	900	~	6:5
L4       C10. Elec.       377555-3       217A/7.7-9       65       100%       .2       10         L5       C1n. Elec.       377555-4       217A/7.7-9       65       100%       .2       10         L6       C1a. Elec.       377555-4       217A/7.7-9       65       100%       .2       10         L7       Ciu. Elec.       377555-4       217A/7.7-9       65       100%       .2       10         L8       Ciu. Elec.       377555-5       217A/7.7-9       65       5       100%       .2       10         L1       Cin. Elec.       377555-1       217A/7.7-9       65       5       100%       .2       10         T4       Cin. Elec.       377554       217A/7.7-9       65       34       34       100%       .2       10       2         C8b       580       217A/7.4-11       .305       34       34       100%       .3       .2       35       .2			613		CKR05BX104KR	1988/1001.2		volte	50	42	42	1005		900	٦	(1.50
L5       Cfn. Elec.       377555-4       217A/7.7-9       65       1007       .2       10       2       10	-	n'uctor	3	•	377555-3	217A/7.7-9						100%		7.	10	~;
L6       Cfa. Elec.       377555-4       217A/7.7-9       65       1007       .2       10         L7       Cia. Elec.       377555-4       217A/7.7-9       65       1007       .2       10         L8       Cia. Elec.       377555-5       217A/7.7-9       65       1007       .2       10       2         T4       Cia. Elec.       377554       217A/7.7-9       65       1007       .2       10       2         CB6       5R0       217A/7.4-11       .305 mg       500       34       34       1007       .3       .26       3.5       .2         CR7       5R0       217A/7.4-11       .305 mg       500       34       34       1007       .03       .26       3.5       .2			1.5		377555-4	217A/7.7-9						100%		.2	10	2
L3 Ciu. Elec. 377555-4 217A/7.7-9 65			97		377555-4	2174/7.7-9						1000		.2	1.0	-
L1 Cin. Elec. 377555-5 217A/7.7-9 65 1007, 1007, 2 10 2  T4 Cin. Elec. 377554 217A/7.7-9 65 200 34 34 1007, 038.26 3.5 CR? CR? SR0 217A/7.4-11 .305 mV 500 34 34 1007, 038.26 3.5 .			17	1	377555-4	217A/7.7-9						1002		. 2	10	2
L1       Cin. Elec.       377554       217A/7.7-9       65       1607       2       10       2         T4       Cin. Elec.       377554       217A/7.7-9       65       65       1607       30       34       34       1607       37       10       2         CR6       5R0       217A/7.4-11       305 mW       590       34       34       1007       03       26       3.5       3	1		87		377555-5	217A/7.7-9	65					100%		٠,	10	2
CR6 CR7 5R0 217A/7.4-11 .305 mW 50C 34 34 1007 .03 .26 3.5 . CR7 CR7 .03 .26 3.5 .	-		11	1	377555-1	217A/7.7-9						1001		• 2	10	2
CR6 5R0 217A/7.4-11 .305 mW 500 34 34 1007 .031.26 3.5 . CR7 5R0 5R0 217A/7.4-11 .305 mW 50C 34 34 1007 .031.26 3.5 .	H	ranaformer	7,	- 1	377554	217A/7.7-9.	65			-		1001		. 2	10	17.4
SRO 217A/7,4-11 305 mW 500 34 34 1007 031.26 3.5	9	S abost	CR6		SRO	217A/7.4-11	305		500	36	36	1001	.03	.26		16.
			CR?		5R0	2174/7,4-11	305		50c	34	34	1007	.03	.26		161

DEGREES CENTIGRADE TOTAL FAILURE RATE 1.60374 15 Volt Regulator & DC/DC Converter Vehicular DATE 25 June 1973

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DRAWING NO. 377550, POWER SUPPLY

-101-

FUNCTIONAL BLOCK

N	2712 STRESS	S ANALYS	7818												
	.W.8		`		3 %	40		63.		1/13	24/	30,			4,
* MBI	SWN SWE	100 Mus	JOS WANN FA	SHAP TAKE	APPLICA Species	877.00X	D'ANA	O31 vo		OSS AND STREET	NA PO	SEAM 2		. \	307
	Diade St	CRB		JAN1N4148	217A/7.4-11	,334	P.	75	2	5	100.	.067	278	3,5	.973
		CR9		Janin4148	2174/7.4-11	-	ş	75	S	8	1007.	.067	278	3.5	973
		CR12		Janin4148	2174/7.4-11		¥	75	m	6	1002	40.	36	3.5	161
		CK13		JAN1N4148	2174/7.4-11	307	₹E	75	3	~	100%	3.	36	3.5	16
		CR14		JANIN3611	2174/7.4-11	32	Amps	1.0	.0003	, 6003	100%	-: V	269	3,5	545
		CK15		JAN1N3611	217A/7.4-11	. 32	eduse	1.0	.0003	.0003	100%	7.1	597.	3.5	9.42
	HS1	72		377659	RADC 11/413	65					100%		2,4192	·	2+19
	Connector	I d		20p	RADC 11/191	65					100%		6103	<b>~</b>	.0051
	Diode	CR10		JANIN4148	217A/8.4-11	.334	¥	75	~	57	1001	190	7	3.5	973
		CR11		JAN1N4148	2174/7.7-11	334	ž	75	2	S	1007	.067	B/2	3,5	973
		CR16		JAN1N3611	217A/7.7-11	39	84208	1.0	.07	101	100%	.07	315	3.5	1,112
	Relay	Kl	Teledyne	432-3,3KR	217A/7.10-5	53							301		15.05
,															

DATE 25 June 1973 FUNCTIONAL BLOCK TEMP.

PAGE 2 OF

377550, Power Supply DRAWING NO.

TOTAL FAILURE RATE 2,618235 X10"5

15 Wolt Regulator & DC/DC Converter Vehicular

DEGREES CENTIGRADE

-102-

	Z712	SE ANALYSIS	Y818									•			
	·4.0				378		ı	8.		4	34	32		1	1
* KER!	SWA LAND	"N'S	JOSIN'S PRIMINA	TRAN TRANS	John Jack	100%	O ST.	313mers		GJ53170	ALT AND SOF	SSSAIS	0, 13	. 1	20. 20.4.3
NAN I	NPN Transistor	80		2N2219A	21.7A/7.4-13	<del>/</del>	1	900	lē	100	2007	136	,   9	1 '	
		F1	Littlefuse	700-5-2	217A/7.12-3	65	SQE O	7			001	٧	69.	٥	25.7
	25.74	F2	Littlefuse	275-004	217A/7,12-3	6.5	affips	3			1002		-! -		
	Capación :	C3		CKR05BX104KR	1988/1001.2	65	voite	50	5	2	1001	-	000		603
		77		M39003/01	217A/7.6-81	6.5	volte	50	25	25	1001	٠.	006.5	2	06.50
	Referor	R.		RCR05G682JS	1994/301.2	6.5	AE.	125	٦	c	_	15	000		600
		R2		RCR05G392JS	1004/301.2	65	AIR.	125	C	c		-	000	2	3
		R13		RCR07G180.TS	1494/301.2	65	į.	250	25	25	1	-	000	3 5	7 6
		R14		RCR07C180JS	1994/301.2	68	7	250	25	22	1	-	i co	2 2	00
		R15		RCR05G751JS	1094/301.2	6.5	3	133	c	~:	50%		000	9.2	200
		R14,		RCR05.1751.1S	1994/301,2	59	įž	125	U	.2	1 -	1	000	2	000
		. I.		RCR056433JS	1994/301.2	59	Ę	125	1		67. K	-3	2000	2	002
		۳ <u>. ۲</u>		RCR05G103JS	1004/101.2	6.2	£ 3	125	.14	,1,	37.	- -	0002	0	0002
		B19		RCROSC1051S	1994/301_2	3	ã	125	7		100°K	-	2000	2	COO
		R20		BCR0571051S	1994/301.2	3		135		<b>V</b>	1002		000	5	6
		P21		RCR0:0206:S	1996/301.2	=	i	7 57		-	100-61	-	000	0-1	00
	Diode St ZEN	CE		1x965A	2174/7-4-11	877	ě	100 <b>7</b>	1	1.5	1004	-	- -	-	
	Diode, St. ZEN	STRIP I		124145	11.4. 7.11	87.	7	-	d	_	\$0.5	-		,	
	Dlode, Sl	CRIB		184145	2124/2,6211	218	1	-+	-		30:		=	-	1
	S. PEP Sections	4010		2X2307A	12. 124. 245.15	228		ما مون		9	50° (5.1		52		,

TOTAL FAILURE RATE .727786

DEGREES CENTIGRADE

DRAWING NO. Telifillar Appliques

-104-

FUNCTIONAL BLOCK PAGE ? OF

TEMP.

Parent Board

First date C.

DATE

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	JAN. JA	as as	2174/7.4-13	217AZZ4-13	2178/2.4-17	217A7:4-13	21-4/7,4-13	21.74/7.4-13	11.244-13	1.V/ 0	RADC11/416	SAFCOM	RADC11/191	RADCTI/191	1304/401.2						
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S ARALYSIS	108M4	2	011	912	013	214	213	916	.16		17.	1.2	L.	Łd	R8						
(12	W.B.	**	SIPN Transistor	Transfator	Transistor	Translator	Fransistor	Transfator	Transistor	Transformer	Int. Cfr.	181	Connector		Resistor						
-	n	2	SIPNE						NdNIS										<del> </del>		

A THE REPORT OF THE SECOND STATES OF THE SECOND SEC

AT\_\_\_\_\_DEGREES CENTIGRADE

FUNCTIONAL BLOCK Barert Board

DRAWING NO. Vehicular Applique 3 6700

-105-

TENIP.

•	A12 RESS	S AMALYS!	Y818												-
	.W. A				3 78/	*	` .	43,		43	SNI				2021
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	Capacitor	\     		DMI OF 51 OCP	217A/7.6-21	65	٧	300	0	< 1	.74.	4.1	.0003	15	7000
	1	2		DMOSF910GP	217A/7,6-21	65	۸	300	0	5.1	25	4.1	.0003	15	<b>90.</b> 00
<b>!</b>		3		F423	2174/7.6-33	59	A	0,50	C	33	7.6	777	600		13002
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		99		DM10F101JP	217A/7.6-21	65	۸	300	0	15	9.4	- V	.0003	15	2004
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		C12		CKR05BX103KR	1988/1001,2	65	Λ	100	0	24	9,5	,24	.0005	5	.0002
		C13		CKR05BX103KR	1988/1001,2	65	Λ	100	٦	77	0.7	.24	.0005	5	.0002
		C14		CKR06BX105KR	193B/1001,2	65	Λ	20	c	24	97.	.48	10013	5	. 0005
		C15		CKR06BX105KR	1988/1001.2	59	Λ	50	0	24	97,	43	0001	2	.0005
		C16		F423	217k/7.6-33	65	٨	\$00	င	99	2.6	.12	.011		6600
	Connector	l d		51-051-0000	RADCII/191	65					97.		790.	٠5	00288
		P2		51.028-3196	RADCT1/191	65					46		790.	~	00288
		P3		SMS-20PGD20P	RADC[1/191	65					6		.0102	٠,	0000

TOTAL FAILURE RATE . 0022569 X10-5

AT\_\_\_\_\_\_DEGREES CENTIGRADE

FUNCTIONAL ALOCK 40 Watt Amplifier

DATE 25 June 1973

TEMP.

DRAWING NO. 376800, 40 Watt P.

16.7.01	307	5 1548	5 1548	5 1548	5 1548	5 1548	5 ,1548	5 1546	6 .1548	5 .1548	.18	.18	.18	.18	.18	.18	396	. 396	,386	396
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*3	ISMNW TANA						VK205-20/4B	VK200-23/4B	VK200-20/4B	VR200-20-48							SD1219	8D1119	SD1210	SD1219
	· <i>F/</i>	CEC	CEC	CEC	CEC	CEC		•			CEC	CEC	CEC	CEC	CEC	CEC				
10	enis	13	1.2	23	7.1	1.5	1.6	1.7	1.8	[3	TI	12	T3	74	T5	T6	01	35	65	"
·#·8 .	JAWA JOYA	Inductor									Transformer						Frensister, St NPN			
	38 01.82 AN TAN TAN TO SAN TAN TO SAN TAN TAN TAN TAN TAN TAN TAN TAN TAN T	MANUEAC.  PARTIES OF P	THE STANDS OF PROPERTY OF STANDS OF	CEC CEC 217A/7.7-9 65 65 11 97.	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TEMP. DATE 25 June 1973

FUNCTIONAL BLOCK 40 Wate Ambilifier

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			$\sim$	20	65	65	65	65	59	5.5	3	3		3	65	65	65	65	65	65	65		3	65	65
	¥ 70	D'Jas D'Jas		01.2	01.2	2210	01.2	01.2	21.0	21.2	21.2	• •	4	7.07	11.2	12-3	1.2	1.2	-7 -7	1.2	1,2	-		7.1	1.2
		, ad		99A/301	99A/301.2	1994/301,2	199A/301.2	199A/301.2	199A/301.2	1994/301.2	1994/301	1994/301	1004 /201	36/42	199A/301	217A/7.12	199A/301.	199A/301.	189A/301.2	199A/301.2	199A/301,2	1994/301	72 /30	149A/301.2	199A/301
		*s.	1:	7	7	53	9		7	16	1	S	1	,	S	7	S	S	S	S	S	-	┿	┿-	-
		TANA	100	NCR206100	RCR OG 100KS	RCR20G100	RCR20C1001	7046	9707	940	970,	RCR42G240J	RCR42C2401	200	RCR42G121J	16	RCR32G510J	RCR20G100K	G100K	G100K	G100K	3100K	1000	21001	3100K
			Caya	ולל	RCR	RCRZ	RCR2	106-7046	105-7046	106,7046	106-7046	RCR42	BCD4.2		RCR42	GA52J16	RCR32	RCR20	RCR20G100K	RCR20G100K	RCR20G100K	RCR20G100KS	RCB 2001 0001c	70115	RCR20G100KS
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1		MANUE																					 		
	7	DEMUS	\  _	_	_				$\downarrow$																
		75	ž		<del>Z</del>	<b>x</b> 5	<b>3</b> 6	R15	R16	R17	<b>R</b> 18	R23	R11	623	2	R24	R2	R7	<b>R</b> 8	R9	RIC	<b>R</b> 11	R12	2 2	1
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_	· ø .	* ROLL	S.	-	-	+	+	_	+	_	_				į		Res	1	1	_					
		Y																							

RESS ANALYSIS

TOTAL FAILURE RATE .003213

DEGREES CENTIGRADE

DRAWING NO. 376800. 40 WALL P.A.

25 June 1973

DATE

40 Wate Amplifier

FUNCTIONAL BLOCK

_
78 V.
SIMIN LAVA
199
106-7046 199A/301.2
106-7046 199
106-7046 199A/301,2
RCR42G121JS 199A
RCR42G121JS 199A/301,2
RCR42G121JS 199A
RCR42G121JS 199A/301,2
N6-7046 199A
RCR42G24G55 199A/301.2
RCR42C24055 199A/301.2
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AND THE PROPERTY OF THE PROPER

X10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE .000297

DATE 25 June 1973 40 Watt Amplifier

DRAWING NO. 376800, 40 Mett P. PAGE 4 DF 4

-109-

FUNCTIONAL BLOCK

	,  -	ESS ANALY	¥\$18												
	'w.o.	`.	Ì		374			8.		14	24	32		1	1 4.
* REL	JANA JANA	345	Source Assert	TARA	Japl CAL	85.000	O,	ST SWAPE I		GOSSIPO	IT AR 3 A O	553415 26 417	0, 1,		3 . 303
	pect	C3		CYRIOCARIR	1988/701.2	/T.E	2 2	300	ہ ا						
		8		CYR10C130CR		65	^	300	0		£ 65		7	2 S	
	•	[2]		CYR10c 120 CK	198E/701.2	55	Ų	300	C	Ž	37.		0000	1	9-0127
		83		CYR10C 160 CE	1588/201 2	\$3	V	300	ç	¥			2007		5.4x10-6
		00		CYR10C 180 CR	1988/701.2	65	γ	300	<b>,</b> c	\ \ \ \			0000	~	5-4×10-5
		619		CYR10C 180 CR	1988/781.2	65	Λ	300	0	۲,	3.	- V	0000	r=4	
		3		CYRIOG 150 CR	1983/701.2	6.5	٧	300	٥	60		,	0000	-	10.8×10
		C12		CYR10C 220 DR		65	۸	300		69	2 6	,		İ	10 8210
		613		CYRING 220 DR	1988/701 2	65	y	300	O	90	6.7	,	0000	$\mathbf{I}_{-}$	10 8210
		C14		CVRICC 101GR	1988/701 2	63	Λ	300	0	0ġ	34	,	000	1.0	10.8410
		615		CYRIOC 910GR	298B/201.2	25	A	, des	٥	60	65	,	0000		10 5410
		C16		CYRIDC 910GR	1988/701_2	65	Λ	300	C	09	39	,	0000		10 8-10
		C17		CYRIOC 100CR	1ca8/201_2	65	7	300	D	09	347	,	0000	1 -	10.5×10
		513		CYRIOC 330GR	1988/701.2	65	7	cac	d	. 09	37	2	0000	-	10.8×10-6
		C56		CKRO5RX103UR	1988/1031.	65	A	100	q	24	3.7	.24	5000	5	.000075
		C\$7		CKROSBK103@R	198B/1001.2	3	×	9	9	74	33		.0005	5	.000075
T		953		CKR05BX103UR	198B/1001.	65	>	168	q	1.76	37.	34	5000	2	.000075
		593		CKROSBX102KR	1988/1001.	6.5	7	887	9	9	977	1	.0005	5	0024
		693		CKROSBX102KR	2174/7 7-9	65	Ŋ	200	- P			V	5000	5	0025
	Inductor	1.5	CEC		2174/7.7-9 65	65				P.	37		,	8.6	0518

TOTAL FAILURE RATE .. 00568438 X10-5 DEGREES CENTIGRADE

> FUNCTIONAL BLOCK PAGE 1 OF 2

DATE 25 JUHE 1973

Filter, Rand 1

-110-

DRAWING NO. \_ .

12   S. 35 MM ALVEIS   S. 25 MM ALVEIS   S. 25 MM ALVEIS   S. 25 MM ALVEIS   S. 25 MM ALVEIS   S. 25 MM ALLG   S. 21 MM ALLG	TED SEATING TO SEE A S. S. S. S. S. S. S. S. S. S. S. S. S.	37   1.2   8.6	.2 8.6	.2 8.6	37, .2 8.6 .0516	37, .2 8.6 .0516	3% .2 8.6 .0516	37, .2 8.6 .0516	0 1.5 97% < 01 .210 8 1.63	0 15 37 .02 .220 8 .0528	0 < 1 37 < .01 .210 5.5 .021	0 < 1  3% < .01  .210  3.5  .021	0 1 37 < 01 .21 .3.5 .023	0 1 972 < 01 .11, 3.5 .713.	3% 101 50 1515	37, 101, 50 1.1515	7 22 22 100% < 1 .0002 10 .002	122 122 100% •24 00035 10	
	A SI SIMB	+	-					·			1,	7	7	Γ·.			Ž		
## ## ## ## ## ## ## ## ## ## ## ## ##	40 .680	65	65		65	65		65	27	_	<u></u>	27	<b>—</b>	-	65	65	5	<b>ا</b> ر	_
12 5 .88 AMALYSIS  14 CRC  15 CRC  16 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  18 Delevan 1025  17 CRC  17 Delevan 1025  17 CRC  17 Delevan 1025  17 CRC  17 Delevan 1025  17 CRC  17 Delevan 1025  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  17 CRC  18 HI-G  28 CRC  18 HI-G  28 CRC  18 HI-G  18 CRC  18	3	7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7.7-9			2174/7.4-11	217A/7.4-11	2174/7.4-11	217A/7.6-11	21-A/7.10-9	217A/7.10-	190A/301.2	•	
12 5 .83 ARALVSIS  4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					1025-32	1025-32	1025-32	1025-32	JAN2N2222A	JAN2N2219A	JANIN4168	JANIN <b>516</b> 8	JANING148	Janin4148	2K-2A-126	2K-2A-126	RCR07G223KS	RCR20G472JS	
12 5 58 8881  14 16  16 17 17 17 17 17 17 17 17 17 17 17 17 17	1	1	3	345	De ev <b>a</b> n	Delevan	Delevan	De levan							HI -G	H1-C.			
rensistor relay elay					171	122	123	126	10	02	CR7	CR8	CRIG	CR1-	KS	άX	202	Rio	
	a was								Transistor		4				Relay		Resistor		

×10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE .312856

Filter, Band 1

DATE 25 June 1973

FUNCTIONAL BLOCK

DRAWING NO.

-111-

PAGE

•	C/12 .RESS	SS AKALYSIS													
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		100/	UFAC.		Na Pol		\$ 50.	43/3		Mess	SNIL	100	0		4034
W.	MA TO	25	the same	What was	JAS JAS	i dies	7	WARA MARA		3170	*43°0	3972	1/2	. `	301
	Capacitor	C19		CYR	1988/701.2	59	>	300	<						
		C20		CYR10C180CR	1988/701.2	6.5	:	900	9 6	,	32	1.	0000	.	5.4×10
		123		CYR10C240DR	1988/701.2	65	;	300	•		2	V .	0000		7
		(22		CYRIOC1 30CR	1988/701.2	59	,	300					0000	- 1	
		573		CYR10C200DR	1988701.2	65	>	300		3	2 8		0000		0.4×10
		524		CYRIOCI SOCR	1988/01.2	6.5	>	300		3		,	0000	ના -	10.8×10
		C25		CYR10C160CR	1988701.2	59	>	20.0			3	1	7 5000	¬  -	01xx 01
1		525		CYR10C360GR	1988701.2	65	>	٠	,	3	1	,	<b>3</b>	4 -	77×8×11
1		7.23		CYR10C330GR	1988701.2	65	, A	300	•		2 2	,	20000	c o	10.8×10
		C.28		CYR10C330CR	1988701.2	65	Λ	300	c	3	;	,	0000	1 -	10 8210
		673		CYR10C33ACR	1988/01,2	65	>	300	c	3	1 ;	,	3 5000 C	٠  -	10.0410
1		0730		CYR10C220DR	198B/01.2	65	>	200			1	,	3 6 5 6 6	1	10.0×10
1		C31		CYR10C430GR	1081101.2	65	>	, ,	,		1 2	,	7 5000	,	10. 8X10
		232		CYR10C100CR	1989701.2	. 65	,	20,70	,		+ -	1,	2000	20 5	10.8×10
$\top$		C33		CYR19C139CR	198B/01.2	6.5	>	300	-			1,	20000	0 0	10.8×10
$\top$		534		CYR10C5ROR	1988-01.2	65	>	900	-	3	1 1	1,	70000	10	10.8×10
+		659		CKR05BX103KR	1988/1001.	6.5	<del>                                     </del>	5	0	1 7	1	1,	7 100	27	10.8×10
_		093		CKR05BX103KR	1988/1001	6.5	>	100		J 7		777	5000		.000075
+		195		CKR058X103KR	198B/1001.	5.9	' - }		<del> </del>	+ ;		+	5000	1,	0000075
1		0.20		CKR05BX102KR	1988/1001	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				+ + + + + + + + + + + + + + + + + + + +		777	2000		0000/5
						7	7	200	4	1 9	0.2	7	0005	2	.000075

TOTAL FAILURE RATE .00004512 X10-5

FUNCTIONAL BLOCK Filter, Band 11
PAGE OF 2

TEMP.

DATE 25 1une 1973

DRAWING NO. 3. DELEGA 40 MA

-112-

ANALYSIS												
JOHN JOHN C.		438,	380,	40 00	34.34	1	JAGOS.	SNIAS	300	1 0	3.	1020
NA NA		MIN	JAAN JAAN	To The same of the	War.	SI VO	3140	NA	3912	N. S. S. S. S. S. S. S. S. S. S. S. S. S.	. 🔪	301
C71 CKRO	8	CKR05BX102fR	1988/1001.	65 v	7	ì	9	1.002	1.		, ,	
Lo CEC			217A/7.7-9	65					•	,000	200	2025
1.10 GEG			0 L 17 4 E 16	6.5					+-		• (	3166.
LII CEC			0 F C/ 2 F 16	, ,				H	-	7	10 I	0516
L12 CEC			917467	1 3	-			H	-	7	•	0516
L25 Delevan 1025-28	25-	.28	212.72	3 3	+			H	$\dagger$	7	•1	.0516
<b>526</b> Delevan 1025-28	125-	28	2174 / 2 2	2 5 9	+			E .			8.6	.9318
L27 Delevan 1025-23	125-	53	217477	6.5						1-	4	0516
1.28 Delevan 1025-28	25-2	8	2174/17	5.5	<del> </del>			1 3	+	1-	٥٠٠	9216
Q3 JANZNE222A	NZNZ	222A	2171/2 1.1	22 mm	500	0		977	10.7	<del> </del>	2000	9150
94 JAN2N2219A	N2N2	V61	2174/7 4-1	24 mw	800	C	7	32	6	╅┈		[]
CR9 JAN4148	N4148		2174/7.4-1	22 ma	7.5	Ċ	V		[0. N	1 -	3.5	27.70
	N414	8	217A/7,4-1	,22° ma	75	0	\ <u>\</u>	37.	ر ا	<del> </del>		- 2
	7192	œ	-4	22 ma	75	0	-	37.	<b>6.</b> 01	21	3.5	3
	777	80	217A/7,4-1	122 ma	75	0	F-1	977	10. >	2,1	3.5	:
R11 RCR07G223KS	R07c	223KS	1996/301,2	65 mw	250	22	22	1007	17.7	000	=	Š
R12 RCR20G472JS	R20G	472JS	1998/301:2	6.5 mm	200	122	1,2	1007	1 .	بمسله	3 5	7 6
HI-G 2K-2A-126	-2A-		217A/7.10-6	3.9	-		+	1		3		5700
HI-G 2K-2A-126	-2A		2172.87 50	65			1	1 6	}	-1	2 3	5151
				*			+	+	+	101	<u> </u>	3

DEGREES CENTIGRADE TOTAL FAILURE RATE 131526

DATE 25 June 1973 Filter, Band II FUNCTIONAL BLOCK TEMP.

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DRAWING NO.

CT12 INESS	SS ANALYEIS							•				
'W . B	,						1		13			1
	JOS/ JOS/ JOS/ JOS/ JOS/ JOS/ JOS/ JOS/			20	,3\3.	_	(ASOS	DNIL	المراجعة الم	0		102
IN STAN	is a survey of the survey of t	MAN	)345 1744	STA COROLL	more	OBL L	23/20	A390	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	<b>/</b>	. \	.30
Capacitor	635	5	1	+	1	٠٠٠.	1	2		y	1	2
		CYKLYCZKZK	1.488/701.2	65	Juc A	0	Ā	<u> </u>	V	, out	0	
	-	CYR10C130CR	1.138/701.2	65	3:10	0	-	\$		111111111111111111111111111111111111111	0 4	, 4×10
	C3/	CRY10C6RZR	1988/701.2	65	A		3			10000:	0 .	
	C38	CRY10C110CB	1988/701.2	5.9	-	}_				tage:	3	5.4×10
	C39	CRY10C9R1CR	1988/70, 3		+	0		32	7	thous:	ď	3.4×10
	C40	CRVIOCIONCE	7-1, //2001	60	300	9	ÿ	33	7	13000	2,	5.4×10
	C41	CBV10c100CB			300	9	90	33	7	- 4000	α. 	10.8x1C
	673	CATTUCIONCE	1.188/701,2	£	X 300	0	60	32	2		۵. ا	10.8×10
	7#7	CRYIOCI 30CR	1.188/701.2	65	7.00	_	9	i	,		<u>c</u>	• •
	(43	CRY10C510CR	1988/701.2	59	) 100°		,		+-	<del>40000°</del>	ď	0,70
	C44	CRY10C470GR	1988/701.2	٠,		-		**	1	turio.		• 1
	C45	FRV10r470GR	0 101/ 9901	+		d 	63	32	7	4000	1.8	10.8×10
	C46	Chy1004 non	7 11. / 40.1	65	7	d	0.0	8	7	0000	8	10.8×10
	1.17	LKTIULORSK	1988/701.2	65	300	c	60	33	,	0000	18	10.8×10
	#3.0	CRYIOCIOOCK	1988/701,2	. 59	300	<u> </u>	9	66	,		18	8×10
	x.†`)	CRYIOCSR 1R	1088/701.2	65 v	300		0,		†-	<del> </del>	9	
	292	CKEO JBX 10 3KR	1988/1001.	65 ×	-	-	d		4-	4000	2	0.8×10
-	1 693	PEROTAVIORE	1068/1001	-	-	=	1,7		77.7	5000	2	220000
	C64	a de la companya de l			100	d	7.4	7	- 52.	.0505	5	.000075
		CKROSBYICSKR	1.14B/1001	23.	001	q	24	<u> </u>	• 7 C	.0005	5	5.00000
		CKRUJBX11.25K	1948/1001	65 V	200	d	9.	6.0	<u>.                                      </u>	2000	<b> </b>	7000
		GKRO JEXTOZKR	10-8/1001	65 v	250	9.	,,	3000	-	0005		2000
											†	0000

101AL FAILUPE RATE ... 00052462 X10-5

AT\_\_\_\_DEGREES CENTIGRADE

FUNCTIONAL BLOCK FITTER BOOK ILL DRAWING NO. PAGE | OF

DATE 75 : 100 . 673

-114-

IESS ANGLYSIS	
27)·	

Inductor   Li3   CEC   217A/7.7-9   65   CEC   217A/7.7-9   65   CEC
tor L13 GEC 217A/7.7-9  L14 GEC 217A/7.7-9  L15 GEC 217A/7.7-9  L15 GEC 217A/7.7-9  L10 Delevan 1025-26 217A/7.7-9  L30 Delevan 1025-26 217A/7.7-9  L31 Delevan 1025-26 217A/7.7-9  L32 Delevan 1025-26 217A/7.7-9  L34 Delevan 1025-26 217A/7.7-9  L35 Delevan 1025-26 217A/7.7-9  L36 ANZN2212A 217A/7.4-18  S1 GE12 IANINA148 217A/7.4-11  K6 H7G 2K-2A-125 217A/7.4-1  K10 ZK-2A-125 217A/7.10-8  K10 RCE 2K-2A-125 217A/7.10-8  K10 RCE 2K-2A-125 217A/7.10-8  K14 RCE 7GA7215 199A/301.2
tor 113 CEC 114 CEC 115 CEC 115 CEC 116 CEC 118 CEC 119 Delevan 102 131 Delevan 102 131 Delevan 102 132 Delevan 102 131 CE1 132 Delevan 102 134 CE1 14M CE1 14
tor 113 CEC 114 CEC 114 CEC 115 CEC 116 CEC 129 Deleve 130 Deleve 131 Deleve 131 Deleve 132 Deleve 133 Deleve 134 CEU 142 Deleve 1540 CEC 1650 CEC 1780 CEC
101 L11 L11 L12 L2 L2 L2 L2 L3 L3 L3 L3 L3 L3 L3 L3 L3 L3 L3 L3 L3
Inductor Trarsistor  Re'ay Resistar

DATE 25 June 1973

Filter Band III FUNCTIONAL BLOCK

1 nanti . 40 Watt DA DRAWING NO.

x10.5 DEGREES CENTIGRADE TOTAL FAILURE RATE , 318010

भू	£53	S ANALYSIS	818		ļ											
W.B. May	3m <sub>N</sub>	losinus	MANUEAC.	MONAGE P	3 % 10 3 day	G.	. 0.	A313MAPI		1.00053111	SNIT ARESO	3 DO TI	1 3.		401004	
Capa	Capacitor	13		CVBOSEVIOUR	1000 (1001 a	V		S O	. 1	0 /	8	5	4	1	22	\
				NUCOTYGE OWN	1705/1001.6	65	n	100	0	24	102	1.24	00:5	5	,0005	- <del>U-</del>
		3		CKR05BX103KR	1988/1001.2	65	5	100	0	24	10%	.24	\$000	2	.0002	. 17
		653		DECLO	2178/7.6-21	65	Э	300	0	30	26	1.7	0000	2	0000	<del>-</del>
		000		D#10	2174/7.6-21	65	ij	500	0	30	2.5		0000	1.5	7000	<b>7</b> .
		C51		CKRO5BX102UR	1988/1001 3	6.5	=	00,	c	a	3		0005	~	(1000)	<del></del>
+		C52		CKROSBX 13211	1081/1001	6.5	=	00,	•	9			900			_
+		553		CKO5BX102UB		3.9	=	200	-	9	8	-	0005	1/2		م <del>اموا</del> ر ال
+		C54		CKO58X102UR	198B/1001_3	59	П	200	6	•	3	1	3005	5	0005	
		.555		CKO5BX102UR	198B/1001 2	65	11	200	c	α	5		.0005	5	0007	<del>ري</del> ح
		993		CKRO6BX105KR	1988/1001.2	53	=	50	20	20	100	7	0005	5	.6025	
		797		CKRO6BX106KR	1988/1001_2	डु	17	ig	77	2.4	1007	24	0005	5	.0025	<b></b>
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		R3		RCR05G5101S	199A/301_2	59	2	527	d	7	97	-	.0002	2	.0001	
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TEMP. DATE 25 Tune 1973

FUNCTIONAL BLOCK

DRAWING NO. 320,500, 40 Watt PA

TOTAL FAILURE RATE . 0014105 X10

AT\_\_\_\_\_DEGREES CENTIGRADE

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\_ X10-5 TOTAL FAILURE RATE . 154460 DEGREES CENTIGRADE AT

FUNCTIONAL BLOCK ALC
PAGE 2 OF 3
DRAWING NO. 376-500 40 Watt

DATE 25 .Tune 1973

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X10.5 DEGREES CENTIGRADE TOTAL FAILURE RATE 4.27298 DATE 25 June 1973

N.C. FUNCTIONAL BLOCK PAGE 3 OF -118-

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DRAWING NO. ... LILYDE

, 30<sup>1</sup> 7,00. .0026 .0077 .0077 .0038 .0084 36.7 .032 A PARSON 8.32 2.0 10 312 ~ FAILURE Q() .0144 .0052 .0144 .0144 .0022 .0178 275 1.04 OILE ~ SIMESS 3 De was Çi. 1007 100% 1007 1007 1007 100% 1007 1007 1001 3<sub>NIL FEE</sub> 1.5 AND SZINO 0 O31 PA 150 I .228 65 65 65 9 65 65 65 217A/7,10-7 217A/7.4-13 RADC11/191 MS3114E8-33P RADCII/191 RADC11/191 217A/7.2-9 RADC11/191 RADC11/191 50MD36-01-2 MY20-22PGD 371336 6P. . . w.E. 37710483P MJ4032 <u>:</u> Continental Continent al Grayh111 Motorola CEC SWI 5 **P7** 2 6 12 Transformer Transistor Connector Connector Connector Consector Switch

X10-5 TOTAL FAILURE RATE 1.534024 DEGREES CENTIGRADE

DRAWING NO. Vehicular Appillage, 375700

PAGE 1

FUNCTIONAL -119-

25 June 1973

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TOTAL FAILURE RATE 01633 X10-5

25 June 1973

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TEMP.

-120-

PAGE 1 DF

DRAWING NO. 376×00, 40 Watt PA

FUNCTIONAL BLOCK Chassis

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		5 !		CC20CK270G	217A/7.6-23	59	>	200	0	69	107	.12	.0022		80
		7-10		СС30СН390С	217A/7.6-25	65	>	300	0	09	20%	21.			0077
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		C8-1		CC20CK220G	217A/7.6-25	65	>	500	0	09	25	12	L_	-	
		C8-2		6.8 pf CER	217A/7.6-57	<b>18</b>	>	200	c	6,4		,	1	1	
		C9-1		12pf Cer.	2174/7.6-57	٣	>	300	0 0	3 5	201	2 '		1	2700
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		C13		CC30Cn390G	7-9.	65	>	200	0	909	10%	-12	.0022 5		0011
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		7 - 7 - 7		CCZUCH1 80G	217A/7.6-25	65	>	200	٥	09	107	.12	. 9022		9011
		7-7-7-1		CC32CG101G	217A/7.6-2°	99	>	500	0	09	107.	12	.0022 5	0	1100
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FUNCTIONAL BLOCK Vehicular Antenna

25 June 1073

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PAGE 1 OF

DEGREES CENTIGRADE

TOTAL FAILURE RATE

176900

-121-

DRAWING NO.

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	C16-2		CC20CH240G	217A/7.6-25	<b>У</b>		S S		09	107	7-	) g		120
	C16-3		СС20СН390С	217A/7.6-25	65	>	200	0	09	19,		.0022		0011
	C16-4		PC40H180	217A/7.6-69	65	٨	200	0	9	10%		.093	L	186
	C17-1		PC40H180	217A/7.6-69	99	>	200	0	09	10%	٤.	.093	20	186
	C17-2		CC20CH180G	217A/7.6-25	65	۸	500	0	99	101	.12	.0022	2	.0011
	C18		CC20CH240G	217A/7.6-25	65	^	500	0	09	107	1	.0022	~	. 0011
	C19		CC20CH100G	217A/7.6-25	6.5	A	500	0	09	107	.12	0022	~	. 0011
	C20		5pf Cer.	217A/7.6-57	65	^	200	0	09	10%	٤.	0084		.0042
	C21		PC40H180	217A/7.6-69	65	>	200	Ú	69	10%	,	. 600		.186
Inductor	L1	CEC		217A/7.7-9	65					107		,	4	133
	L2	CEC		217A/7.7-9	65					107		,		133
	13	CEC		2174715	59					107		,	9 8	.172
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	5.1	CEC		217A/7.7-9	5.9							,	9.6	172
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X10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE ,22877

> FUNCTIONAL BLOCK DRAWING NO. PAGE -122-

DATE 25 June 1973

Vehicular Antenna

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1	CEC	CEC						CEC	CEC												
TOBINGS	5	<b>S</b>	+		+	+	+	<u></u>	4			-	-	-	-	-	-	+	+	+	$\dashv$
1	115	116	20	SWI	5	5	112	[13	114			_		-	-	-	-	-	+	+	$\dashv$
3MN N			oleno	اء	stor	ctor		tor			: :										
W. 8.			Rot. Solenoid	Switch	ransistor	Connector		Inductor													
W. B. MOLL		1	1	1.00	_	+	+		+	-	-			-	-	-			-	+	

DEGREES CENTIGRADE TOTAL FAILURE PATE 380969

> Vehicular Antenna FULCTIONAL BLOCK PAGE 3 OF 3

DATE 25 June 1973

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DRAWING NO.

## APPENDIX III

STRESS ANALYSIS - AIRBORNE

	, 	ESS ANALYS!	YSIS													
	·w·s	*	`		374		i	8		41	24	37		Ç.	1	1.0
" RQ	JAN JANE	745	JOHN'S TOBING	A A A A A A A A A A A A A A A A A A A	SECON DE LA PERSONNE	6. CA10.	83.	37316.9		(305311)	IT AR 3°	25381 20 71		. \	2000	· 4 · 20
1,				* *	5 32	2	No.	10		0	<b>%</b>	s	<b>Y</b> y		22	\
Ī	Capacitor	5	JFD	DV510H	217A/7.6-33	70	volts	100	0	۲.	30%	7	.01	•	.003	<del></del>
		C2		1501-36-55	217A/7.6-25	70	volts	100	0	٠,	30%	7	.002	5	.003	<del></del>
		77	JFD	DV510H	217A/7.6-33	70	volts	100	0	, -	30%	ď	.01	•	003	,
		S		1501-36-55	217A/7.6-25	70	volts	100	0	.1	30%	١.	007	5	003	<del>,</del>
		5	JFD	DV510H	217A/7.6-33	70	volts	100	0	.1	30%	'.' V	0.1	,	.003	<del>,</del>
		93		1501-36-55	217A/7.6-25	70	volta	100	0	1,	30%	7	-002	R.	.003	<b>,</b>
		C12		1501-36-53	217A/7.6-25	70	volts	100	0	.1	30%	1 .	200.	5	.003	·
		C13	JFD	DV510H	217A/7.6~33	70	volts	100	0	.1	30%	د . <sub>1</sub>	.01	,	.003	<del></del> -
		65		CKR05BX102KR	198B/1001.2	70	volts	200	15	15	100%	.075	. 0005	2	.0025	<del>-</del>
	Resistor	R 2		RCR05G104JS	1994/301.2	7.0	A	125	<b>C</b> 1	< 1	7001	1. 2	<sub>-</sub> ນ00•	10	.002	<del></del>
		R2		RCR05G302JS	1994/301.2	7.0	Æ	125	c 1	1 >	1001	L. >	.0002	2	.002	<b></b> -
		83		RCR05G104JS	199A/301.2	70	Me	125	7 7	17	100%	۲. >	.0002	10	005	form.
		R4		RCR05G302JS	199A/301.2	7.0	禬	125	1 >	1.5	1001	1. >	.0002	10	.002	
		R8		RCR05G104JS	199A/301.2	70	B.C.	125	1 %	د 1	1007	1. >	.0002	10	.co2	
		R9		RCR05G202JS	199A/301.2	70	音	125	0	10	30%	c.1	2000.	10	9000	
•	Inductor RF	17	Lenox Rugle	NR2.7	217A/7.7-9	70					30%		.2	8.6	,516	
1		177	Lenox Fugle	NR3.3	217A/7.7-9	70					30%		.2	8.6	.516	
		13	Lenox Fugle	NR3.9	217A/7.7-9	70					30%		.2	8.6	,516	<b>.</b>
1		3	Lenox Fugle	NR1.8	217A/7.7-9	70					30%		.2	8.6	.516	
7		1.5	Lenox Fugle	NRO.47	217A/7.7-9	7.0		<b>****</b>	<del></del>		30%		.2	8.6	516	•

DEGREES CENTIGRADE TOTAL FAILURE RATE .261710

Airborne

DATE 25 June 1973

Preselector, Sand I

PAGE 1 OF 3 DRAWING NO. 377450, Tuner

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FUNCTIONAL BLOCK

Parallecture	•	. (12 STRESS	S ANALYSI	YSIS												
Charles		.w.8				37			0		14	34	37		1	7
CKRO5BX102KR   198B/1001.2   70   Volte   200   10   4   10     IED3former	May,		shus	NW.	A A A A A A A A A A A A A A A A A A A	Sport CABL	Stre L	WAY A	313m		VIVS 3	MAKINO	553445 DV 400	0, 15		100 A A
C3         CCRROSBX102KR         198B/1001.2         70         Volte         200         50         90           T2         CLB. Elec.         217A/7.7-9         70         70         70           KI         Teledyne         217A/7.10-5         70         70         70           CR1         TRW         771256-1         Cin, Elec.         70         70         70           CR2         TRW         371256-1         Cin, Elec.         70         70         70           CR3         TRW         371256-1         Cin, Elec.         70         70         70           CR4         TRW         371256-1         Cin, Elec.         70         70         70           CR5         TRW         371256-1         Cin, Elec.         70         70         70           CR6         TRW         371256-1         Cin, Elec.         70         70         70           CR6         TRW         371256-1         Cin, Elec.         70         70         70           CR6         TRW         371256-1         Cin, Elec.         70         70         70           CR6         TRW         371256-1         Cin, Elec.         70		Capacitor	77.3		CKR05BX102KR	1 :	.1	Velta	200		4	1007	2 .1	.000.5	10	.0025
T1   C10. Elec			ន		CKR05BX102KR		70	Volts	200	0.5	90	1007.	3.	<b>5,</b> 001	5	.005
T2         Cfa. Elec.         217A/7.10-5         70           K1         Teledyne         4210-26         217A/7.10-5         70           Ac.         CR1         TRW         771256-1         Cin. Elec.         70           CR2         TRW         371256-1         Cin. Elec.         70         70           CR3         TRW         371256-1         Cin. Elec.         70         70           CR5         TRW         371256-1         Cin. Elec.         70         70           CR5         TRW         371256-1         Cin. Elec.         70         70           CR6         TRW         371256-1         Cin. Elec.         70         70           CR7         TRW         371256-1         Cin. Elec.         70         70           CR8         TRW         371256-1         Cin. Elec.         70         Volte         200         0         5           CR8         TRW         371256-1         Cin. Elec.         70         Volte         200         0         5           C14         CKR         371256-1         Cin. Elec.         70         Volte         200         0         5           C14         CKROSBXIO2		Trensformer	7			217A/7.709	70					30%		1	10	٧
K1         Teledyne         /21D-26         217A/7.10-5         70           CR2         TRW         771256-1         Cin, Elec.         70         C           CR3         TRW         371256-1         Cin, Elec.         70         C           CR4         TRW         371256-1         Cin, Elec.         70         C           CR5         TRW         371256-1         Cin, Elec.         70         C           CR6         TRW         371256-1         Cin, Elec.         70         C           CR6         TRW         371256-1         Cin, Elec.         70         C           CR7         TRW         371256-1         Cin, Elec.         70         C           CR8         TRW         371256-1         Cin, Elec.         70         C           CR8         TRW         371256-1         Cin, Elec.         70         Volte         C           CR8         TRW         371256-1         Cin, Elec.         70         Volte         C         C           CR8         TRW         371256-1         Cin, Elec.         70         Volte         C         C           C14         CRR055BX102KR         198B/1001.2         70			7.2	Cin. Elec.		217A/7.7-9	70					30%		2	10	9.
cCR2         TRW         771256-1         Cin, Elec.         70         70           CR3         TRW         371256-1         Cin, Elec.         70         70         70           CR4         TRW         371256-1         Cin, Elec.         70         70         70           CR5         TRW         371256-1         Cin, Elec.         70         70         70           CR6         TRW         371256-1         Cin, Elec.         70         70         70           CR7         TRW         371256-1         Cin, Elec.         70         70         70           CR8         TRW         371256-1         Cin, Elec.         70         70         70           CR8         TRW         371256-1         Cin, Elec.         70         70         70           CR8         TRW         371256-1         Cin, Elec.         70         70         70           CR8         TRW         371256-1         Cin, Elec.         70         70         70         70           C10         CKR05BX102KR         198B/1001.2         70         Volte         200         90         90           C24         CKR05BX102KR         198B/1001.2	T	Relay	K	Teledyne	421D-26	217A/7,10-5	7					30%		.0093	50	.1425
CR2         TRW         371256-1         Cin, Elec.         70         9           CR4         TRW         371256-1         Cin, Elec.         70         9         9           CR5         TRW         371256-1         Cin, Elec.         70         9         9           CR5         TRW         371256-1         Cin, Elec.         70         9         9           CR6         TRW         371256-1         Cin, Elec.         70         9         9           CR7         TRW         371256-1         Cin, Elec.         70         9         9           CR8         TRW         371256-1         Cin, Elec.         70         9         15         15           CR8         TRW         371256-1         Cin, Elec.         70         9         15         15           CR8         TRW         371256-1         Cin, Elec.         70         9         15         15           CR8         TRW         371256-1         Cin, Elec.         70         9         15         15           C14         CRR         GKR05BX102KR         198B/1001.2         70         Volte         200         9         9           C23 <th></th> <th></th> <td></td> <td>TRW</td> <td>271256-1</td> <td></td> <td>70</td> <td></td> <td></td> <td></td> <td></td> <td>100%</td> <td>۲. ٦</td> <td>.72</td> <td>•</td> <td>.72</td>				TRW	271256-1		70					100%	۲. ٦	.72	•	.72
CR4         TRW         371256-1         Cin. Elec.         70         CR4         TRW         371256-1         Cin. Elec.         70         CR5         CR5         TRW         371256-1         Cin. Elec.         70         CR5         CR6         TRW         371256-1         Cin. Elec.         70         CR5         CR6         CR7 </td <th></th> <th></th> <td></td> <td>RW</td> <td>371256-1</td> <td>1</td> <td>70</td> <td></td> <td></td> <td></td> <td></td> <td>100%</td> <td>۸.1</td> <td>.72</td> <td>•</td> <td>.72</td>				RW	371256-1	1	70					100%	۸.1	.72	•	.72
CR4         TRW         371256-1         Cin. Elec.         70         Proposition           CR5         TRW         371256-1         Cin. Elec.         70         Proposition           CR6         TRW         371256-1         Cin. Elec.         70         Proposition           CR8         TRW         371256-1         Cin. Elec.         70         Proposition           CR8         TRW         371256-1         Cin. Elec.         70         Proposition           CR9         TRW         371256-1         Cin. Elec.         70         Proposition           C14         CKR05BX102KR         198B/1001.2         70         Volts         200         0         5           C15         CKR05BX102KR         198B/1001.2         70         Volts         200         15         15           C24         CKR05BX102KR         198B/1001.2         70         Volts         200         15         15           C25         CKR05BX102KR         198B/1001.2         70         Volts         200         15         15           C26         CKR05BX102KR         198B/1001.2         70         Volts         200         0         5           C25         CKR05BX			CR3	TRW	371256-1		70					7,007	c .1	.72	,	.72
CR5         TRW         371256-1         Cin. Elec.         70         CR           CR6         TRW         371256-1         Cin. Elec.         70         CR           CR3         TRW         371256-1         Cin. Elec.         70         CR           CR8         TRW         371256-1         Cin. Elec.         70         CR         15           C14         CKR05BX102KR         198B/1001.2         70         Volte         200         0         5           C15         CKR05BX102KR         198B/1001.2         70         Volte         200         90         5           C23         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C24         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C25         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C25         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C25         CKR05BX102KR         198B/1001.2         70         Volte         200         0         5 <th></th> <th></th> <td>CR4</td> <td>TRW</td> <td>371256-1</td> <td>١. ا</td> <td>70</td> <td></td> <td></td> <td></td> <td></td> <td>100%</td> <td>۱, &gt;</td> <td>.72</td> <td>•</td> <td>.72</td>			CR4	TRW	371256-1	١. ا	70					100%	۱, >	.72	•	.72
CR6         TRW         371256-1         Cin. Elec.         70         CR           CR3         TRW         371256-1         Cin. Elec.         70         CR         15           CR8         TRW         371256-1         Cin. Elec.         70         Volte         200         15         15           C14         CKR05BX102KR         198B/1001.2         70         Volte         200         0         5           C15         CKR05BX102KR         198B/1001.2         70         Volte         200         0         5           C23         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C24         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C25         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C25         CKR05BX102KR         198B/1001.2         70         Volte         200         0         5           C26         CKR05BX102KR         198B/1001.2         70         Volte         200         0         5	1		CRS	TRW	371256-1	ا.	70					1007.	<.1	.72	•	.72
CR2         TRW         371256-1         Cin. Elec.         70         20         15         15           CR8         TRW         371256-1         Cin. Elec.         70         Volte         200         15         15           C14         CKR05BX102KR         198B/1001.2         70         Volte         200         0         5           C15         CKR05BX102KR         198B/1001.2         70         Volte         200         90         90           C23         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C24         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C25         CKR05BX102KR         198B/1001.2         70         Volte         200         15         15           C26         CKR05BX102KR         198B/1001.2         70         Volte         200         0         5	T		CR6	TRW	371256-1		70					100%	<.1	.72		.72
CRB TRW 371256-1 Cin. Elec. 70	T		CR7	TRW	371256-1	ا	70					1007.	د ،1	.72	•	.72
C1G       CKR05BX102KR       198B/1001.2       70       Volte       200       15       15         C14       CKR05BX102KR       198B/1001.2       70       Volte       200       0       5         C15       CKR05BX102KR       198B/1001.2       70       Volte       200       90       90         C23       CKR05BX102KR       198B/1001.2       70       Volte       200       15       15         C24       CKR05BX102KR       198B/1001.2       70       Volte       200       15       15         C25       CKR05BX102KR       198B/1001.2       70       Volte       200       15       15			CR8	TRW	371256-1		70					1007.	1. >	.72	•	.72
CKR05BX102KR         198B/1001.2         70         Volts         200         0         5           CKR05BX102KR         198B/1001.2         70         Volts         200         90         90           CKR05BX102KR         198B/1001.2         70         Volts         200         15         15           CKR05BX102KR         198B/1001.2         70         Volts         200         15         15           CKR05BX102KR         198B/1001.2         70         Volts         200         15         15	T	Capacitor	210		CKR05BX102KR	198B/1001.2	70	Volte	200	15		1007.	4.1	0003	5	.0025
CKR05BX102KR         198B/1001.2         70         Volts         200         0         5           CKR05BX102KR         198B/1001.2         70         Volts         200         90         90           CKR05BX102KR         198B/1001.2         70         Volts         200         15         15           CKR05BX102KR         198B/1001.2         70         Volts         200         15         15			710		CKR05BX102KR	1988/1001.2	70	Velts	200	0	5	30%	1. >	• 0005	5	.0007
CKR05BX102KR       198B/1001.2       70       Volts       200       90       90         CKR05BX102KR       198B/1001.2       70       Volts       200       15       15         CKR05BX102KR       198B/1001.2       70       Volts       200       15       15	7		C15		CKR05BX102KR	198B/1001.3	70	Volts	200	0	5	30%	< .1	.0005	5	,0007
CKR05BX102KR       198B/1001.2       70       Volts       200       15       15         CKR05BX102KR       198B/1001.2       70       Volts       200       15       15			C23		CKR05BX102KR	1985/1001.3	70	Volts	200	90	60	2001	Ğ÷.	100	5	500.
CKR05BX102KR 198B/1001.2 70 Volts 200 15 15 CKR05BX102KR 198B/1001.2 70 Volts 200 0 5			525		CKR05BX102KR	198B/1001.2	20	Volts	200		15	1007	1. >	,000.5		,0025
CKR05BX102KR 198B/1001.2 70 Volts 200 0 5			C25		CKR05BX102KR	198B/1001.2	70	Volts	200		15	100%	< .1	.0005		.0025
			C26		CKR05BX102KR	1988/1001.1	70	Volts	200	0	'n	30%	1. 2	5000		67000

25 June 1973 DATE

Airborne Preselector, Band I FUNCTIONAL BLOCK PAGE 2 OF 3 PAGE 2 OF

DRAWING NO. 327450, Tuber

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DEGREES CENTIGRADE

TOTAL FAILURE RATE .712475

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	'W.		`		376	1	*	8		41	24	372			*
* res	A NAWE	145	JOSHUS PAUNAN JOSHUS PAUNAN	TANA	Spel (CA)	_	A ST. COROLL	JI 3MAP 20		3053170	TARBATO ON YOUR	253812 CO 1100	0, 14	. \	3011
	8	C63		CKRO	193B/1001.2	<b>↓</b>	volts	7		15	1007	K		1 4	3000
		33		1501-36-102	2174/7.6-25	70	volts		0		307	2	00,	2	2003
1	Resistor	85		RCR05G104JS	1994/301.2	70	Wm		د ۱	17	1007	٠ ا	0000		003
_		86		RCR05G622JS	195A/301.2	70	mW	125	0	د1	30%		0000	12	9000
1		R7		RCR05G302JS	199A/301.2	70	丹田	125	< 1	را دا	1007.	۲,۶	000	10	.002
7	,,	RII		RCR05G333JS	199A/301.2	70	шW	125	0	IJ	30%	4.1	.0002	101	9000
$\top$		R12		RCR05G104JS	1994/301.2	70	Will	125	0	<1 <1	30%	7.7	000	01	9000
+		R13		RCR05G303JS	199A/301.2	70	ШW	125	0	- 1>	30%	۸.1	0007	10	9000
1		R14		RCR05G303JS	1994/301.2	70	MC1	125	0	1>	30%	6.1	.0002	10	9000
+	Inductor	97 176	Lenox Fugle	NR; C	217A/7.7-9	70					30%		.2	8.6	516
+		17	ienox Fugle	MR10	2178/7.7-9	70					30%		2	8.6	516
$\dagger$		717	Lenox Fugle	NR10	217A/7.6-25	70			·		206		.2	9	1, 548
+	Transformer	T3	Cin. Elec.		217A/7.7-9	70					30%		2		ع
+		74	Cin. Elec.		217A/7.7-9	70				·	.30%		2	10	9
LEE .	Transistor	77	Siliconix	<b>U320</b>	217A/7.4-13	.42	Watts	3	0	.15	30%	.05		80	1.5984
awats	Transistor	20		JAN2N2907	217A/7.4-13	.257	音	400	O	9.	307.	ا 2.	.575	80	.38
+	Diode, Pin	CRO	Hew Pesk	HP5082-3168	2176/7.4-11	.36	E.	250	0	1,4	30%	ا ا ا	.297	3.5	3118
+														-1	
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FUNCTIONAL BLOCK Preselector, Band I Airborne PAGE 3 OF 3

DRAWING NO. 377450, Tuner

TOTAL FAILURE RATE .70827 XII

-127-

TRESS ANALYSIS		
CTRESS	V.	,
CTRESS	-	
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		گرد.	\ \	3781		40	¢3,		1N	N.	375		1	1
$\sim$	nnw sws	MANUTA STANDE	38WA 14V	Sal 1997	•		(3WAY)	ORING	253176	4843	253913	25.00	. 1	2004
_	C29		CKR05BX102KR	1988/1001 2	<b>L</b>		Λ,	١,	1	4	$\rightarrow$	*	- 1	2
4	C27 JFD		DV510H		-		<del>-  </del>	06	96	100%	:45	5.001	5	.005
	C28		1501	C-0 · / / V / T 7	-	volts	100	0	7	30%	 V	.01	. •	.003
_	030		101-35-69	217A/7_6-25	22	volts	g	d	4	302	ر د	.002	٠,	00
	634		НТОСАС	217A/7.6-33	20	volts	<u></u>	٥	.1	307.	7	5		3
1_	777		1501-36-49	217A/7.6-25	70	volts	100	0	•1	30%	٠. ا	003		§ §
1	(33		EV510H	217A/7.6-33	70	volte	100	0	.1	30%	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	6		8
1_	757		1501-35-49	217A/7.6-25	20	volts	100	0	ı.	30%	1.2	00,		3 5
1_	*C		1501-36-62	217A/7.6-25	70	volts	100	٥	.1	30%	\ \ \ \ \	000	, ,	3
1	273		DV510Н	217A/7.6-33	70	volts	100	0	-	305	١.	2002		
	C36		CKR05BX102KR	198B/1001,2	70	Volte	900	=	3			10.		.003
9	C37		CKR05BX102KR	1988/1001,2	5	Volte	200	1	1	100%	3	coan	_ .	.0025
14	E.15		RCR056303.15	1904/201 2	)					20%	7.	cono.	٥	007
(X	R16		+	2.100/201.6	70	à	125	7	<u>&lt;1</u>	100%	۷. ۲	0005	10	.002
α	212		+	• {	20	Me	125	1 >	7	100%	1. >	.0002	10	005
۱ ا			1	199A/301.2	70	Min.	125	7 >	7	100%	7.1	000	0-	00%
۲	KIS	+	RCR05G204JS	1994/301.2	20	MM	125	د 1	17	1007	1	2000	-	
٣	R19		RCR05G302JS	1994/301.2	70	HIP	125	< 1		100	• 1	2000-	21	700
4	R20	<u>E</u>	RCR05G204JS 1	199A/301.2	7.0	Ę	1.75	.1		***************************************	•	7000	2	005
+	113 Lenox Fugle		NR-3.9	217A/7 7-0	,			;	7	1007	7:1	.0002	2	005
-	L14 Lenox Fuele			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0	+		1		30%		.2	8.6	516
		T		21/A//./-9	70					30%		.2	8.6	516
	1	7		6-1./V/17	70					30%		.2	8.6	516

DATE 25 June 1973 TEMP.

Airborne Preselector, Band II E FUNCTIONAL BLOCK

DRAWING NO. 377450, Tuner

TOTAL FAILURE RATE . 159225

DEGREES CENTIGRADE

FESS ANALYSIS

	18.	4 .30	•	<b>1</b>	7	<del>-,</del>	<del></del>	<del></del>	<del></del>			<b></b>					<b></b>									
	*	3000	Ž	516	<u> </u>	<u> </u>		0	.1425	°72	.72	.72	,	7	2/5	.72	.7.2	.72	7,	, ,	7/-	-72	.72	.72	.72	0025
	i .	. `		9.6		2 5	?		20	•		ı		·	•		·	,		1	•	•	•	ı	,	8.
			Ś	.2	,	,	,	74	.0093	-72	.72	.72	7.5	7 :			.72	.72	72	;	7/5	7/.	.72	.72	72	0005
	32	56341, 50-11,	6/							•	7:	 V	1	•1	11	큯	7.	<.11	- V	٠	•	+	7.	7.7	< 1 ×	< .1 S
	34,	TARRAIN	8	30%	30%	30%	302	3 5	400	7007	1001	1007.	1003	80	7007	1002	1007.	1007	1307	103	<b>→</b>	+-	1001	1007	1001	1002
	11/3	SS31A														1				-	<del> </del>	+				4
			- 1						1		1			<del> </del>	<u> </u>	1	1		-	-	-			+		10
	43.	Q3L b	8							†					-	$\dagger$	+			-		-		-	-	260
		(3Work)	ø						<del>  -</del>	-	+			-		+	+	1			-	<u> -</u> -	-	-		VOLER
	10	DIS CAROS		13	70	7.0	70	7.0	5	2 6	+	70	70	70	,	2 ;	1	70/	70	70	70	3.0	2) ;	07	2	A 22
		as in the second	\l.	7-9	7-9	7-9	5-6	10-5	10 C	Flec	+	lec.	Elec.	Elec.	F10.	F100	•	Elec.	Elec.	Elec.	Elece	F.10r	<u>.</u>	+		
		JAA	•	217A/7.7-9	217A/7.7-9	217A/7.7-9	217A/7,7-9	217A/7.10-	Cfn. E		1	Cin. Ei	Cin. E	Cin. E]	Cin F			Cin, E!	Cin, El	Cfn. El	Cia. El	Cfn F1		CIU. EI	Cin. Elec.	1985/1001.2
	•	JOHN A		IR2.2	NRO, 33			421D-26	3215	3215		5215	3215	3215	3215	3215	2316		3215	15	15	15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+	+	CKRO5BX102KR
	• • •	TARE	7-	7	7	+	+	42	32	32		35	32	32	32	32	-	75	32	3215	3215	3215	27			3
1		10/4		Lenox Fugle	Lenox Cugle	Cir. Elec.	Cin, Ries,	Teledyne	CRIO C.D. Co.	CR11 C.D. Co.		CEL C. U. CO.	CR13 C.D. Co.	CR14 C.D. Co.	CRISICAD, Co.	C.D. Co.	2	.00	CRIS C.D. Co.	CR19 C.D. Co.	CR20 C.D. Co.	C.D. Co.	TRU		AU 1	
		Brus		9	117	73	76	2	CRIO	CR11	6600	Turing in	CR13	CR14	CRIS	CR16	C 1 3		CRIE	CR19	CRZO	CP21	CR23	2000		500
· h		SMAN HOLD		AN ACTORDA	-∤	Transformer		Relay	Diode Varac.												j				Canacitar	707774
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			}	2															Τ,	T				7

Airborne DATE 25 June 1973 Preselector, Bend II FUNCTIONAL BLOCK TEMP.

PAGE 2 OF

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TOTAL FAILURE RATE 1.24570 X10-5

DEGREES CENTIGRAME

DRAWING NO. 377450, Tuner

	Z7	ESS ANAL	AN AL YSIS												
	.w.o.		`		376	ì	8	4.		47	24	37		1	4
* rox	Jan American	15	JOHNUS JOHNUS	A PA PA PA PA PA PA PA PA PA PA PA PA PA	SPEL CAR	ST CHOS	O ST	313MANETE		3783140	AT NO 340	20 4 X	0,13		3084 \$
	Capacitor	C39		501-36-53	217A/7.6-25	<b>/</b>	*	100	0		300	7	,   5	1 40	
		C41		CKROSBX102KR	1988/1001.2	70		200	0		30%	•	3000	,	500
		277		CKR05BX102KR	198B/1001.2	70		200	0	2	30%	- 7	2000	, u	7000
		C43		CKR05BX102KR	1988/1001.2	7.0		200	06	8	100%	┥・	001	, ,	200
		770		CKR05BX102KR	1983/1001.2	7.0		200	15	35	1007	1.	000.5	2	6025
		573		CKR05BX102KR	1958/1001.2	70		200	0	2	30%	6.1	5000	"	00075
		C62		CKR05BX102KR	1988/1001.2	70		200	90	96	100%	59.	001	2	005
	Resistor	R21		RCR05G104JS	199A/301.2	70	·A	125		۲ <u>۱</u>	100%	4.1	0000		600
		R22		RCR05G302JS	1994/301.2	70	Мп	125	ī	7	100%	٠Į ه	000	2	000
		R23		RCR05G202JS	199A/301.2	70	Ąü	125	6	01	305		2000	2	300
		R24		RCR05G3333S	199A/301.2	70	音	125		$\prod$	3		2000	10	6006
		R25		ECR05G104JS	1994/301.2	70	: <u>4</u>	125				٠I	2000	2 0	9000
		R26		RCR05G303JS	199A/301.2		:Au	125				17	0000	10	0006
1		R27		KCR05G303JS	1994/301.2	70	μV	125	0	2		4.1	0000	10	9000
	Inductor	119	Lenox Fugle	#R10	217A/7.7-9	70					307.		2	8.6	516
+		118	Lenox Fugle	4R10	217A/7.7-9	70					30%	•	2		516
	Transformer	£-1	Cin. Elec.		2174/7.7-9	70					30%		2	0	9
-		7.8	cin. Elec.		217A/7.7-9	70					30%		2	01	9
	Diode Pin	CR24	Hew Pac.	P5082-3168		.36	Ą	2.50	0	1.6		10.2	297	3.5	31135
FET	Translator	03	Siliconix	0320	217A/7.4-13	.42	J.M.	007	0	.15	30%	.05	999	i	59.84

TOTAL FAILURE RATE . 41670 X

FUNCTIONAL BLOCK

Preselector, Band II Airborne

DATE 25 June 1973

DRAWING NO. 327450, Tuner

| The same and the

	,12 RESS		ANALYSIS												
NO.	W.O. W.O.	1345	MANUFAC.	TANG	PA I CABLE	940	40 03	4313WA		I ESCENT	SWITTING.	3 D.O 4	1		20 30 4 · 3
		1		*	2 2	<b>→</b>	10	**	.	10	(o)	(0)	<b>Y</b> .		0 <u>1</u>
	Capacitor	993	JED	ру510н	2174/7.6-33	70	volta	100	0	.,	302	7	.01	·	.003
		C48	JFD	DV510H	217A/7,6-33	70	volts	100	0	.1	302		0.1		60
		670	JED	DV510";	217A/7.6-33	70	volts	100	0	1	307	V	5		3
		C56	JFD	DV51CH	217A/7.6-33		volts	100	0	1.	307		5		3 8
1		57		CKR05BX102XR	198B/1001,2	70	volts	200	06	တ္	1007	4 •		~	5005
1		C50		1501-36-71	217A/7,6-25	70	volte	001	0		392	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	000		00,00
1		C51	·	CKR05BX102UR	1988/1001.2	70	wolts	200	90	S	1001	• •	4	, ,	505
1		C52		CKEC5BX102UR	198B/1601.2	70	volts	200	15	15	1001	7.1	•	٦.	000 5
1		C53		CKR05BX102UR	198B/1001.2	70	volts	200	0	-:	30%	7.7	0000	5	0007
+	Registor	R28		RCR05G204JS	1994/301.2	70	A A	125	7	< 1	1007	4. 7	.0002	10	200
$\dagger$		R29		RCRC5G302JS	199A/301.2	97	歪	125	7 7	< 1	100%	٨.١	.0002	10	.002
1		<b>R3</b> 0		RCR056304JS	199A/301.2	70	量	125	< 1	12	1001	< .1	.0002	10	200
		Ĭ		RCR05G302JS	199A/301.2	70	吾	125	< 1 × 1	د ا د	1001	1. 2	.0002	10	.002
<del>-</del>		R32		RCR05G204JS	1994/301.2	70	酒	125	77	77	1001	1. >	.0002	10	.002
1		R33		RCR05G303JS	1994/301.2	9	mki	125	0	<1>	30%	1. >	* 9002	10	9000
1	Inductor RF	170	Lenox Fugle	NR3.9	2,747.7-9	70					30%		.2	8.6	.516
-		173	Lenox Fugle	NR2.2	217A/7.7-9	20					30%		.2	8.6	.516
+		1.22	Lenox Fugle	NR3.9	217A/7.7-9	70				٠	30%		.2		.516
+		123	Lenox Fugle	NR2.2	217A/7.7-9	70					30%		2		516
		L24	Lenox Fugle	NR10	217A/7.7-9	70					1 2 5			4	

TEMP. DATE 25 June 1973

FUNCTIONAL ELOCK Preselector, Band III Airborne

DRAWING NO. 377456 Turen

TOTAL FAILURE RATE . 261385 X10-5
AT DEGREES CENTIGRADE

-132-

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	`	\	_		`				
4387	3 78 kg	10	4343	TABO	JNJ5	/3	1		*
NA. WAR.	JA41	STA GOOD	mod .	031	P&30	34	0110	. `	300
NRO.33	111111	100	**		0	2	<b>b</b> y		201
NR10	217A/7 7.00	0/ 6				30%	.2	8.6	.516
	2174/7 7-0	0 ;	_		<u> </u>	20	.2		.516
	233. /2 2	0/	1		3	8	1.2	2	ء ا
421D-26	2171/1.7-9	70	_		3	20	.2	2	2
3215	Cin F122	70			ñ	8	.0093	52	. 1425
1215		2 ;			7	7	1.72		.72
215		9) ;			7	00.	. 72		.72
3215		2) 6		-		V	.72		.72
215		); 		1	11	10% < .1	,72		.72
3215		0/ ;		-	2	02 6.1	.72		.72
3215		70			2	0% < .1	.72		72
		9) ;			9	1, > %	.72	1	12
HP 5082-3168	7 /2 /211	<del>- -</del>		+	01	07. 5 .1	.72	-	
1501-36-53	•	+	250	0	4	V	.297	3,5	3118
1 30	,	+-	8	0	1 30	. 2.1	.002		893
- 2	L	+	200	$\downarrow$	+	2 < 1	- 000 -	5	0025
-		+-	37	+	+	4.1	.0005	5	0007
	1	+-	200	2 + 5-	302	7	0005	5	.0007
<u> </u>		+-	007	-	+	7	0005	5	00075
		I votte	7007	2 1		7. 7	0005	5	.0025
4210-7 3215 3215 3215 3215 3215 3215 3215 3215		217A/7.7-9 217A/7.7-9 217A/7.10-9 217A/7.10-9 Cin. Elec. Cin. Elec		217A/7.7-9 70 217A/7.7-9 70 217A/7.10-5 70 217A/7.10-5 70 Cin. Elec. 70	217A/7.7-9 70  217A/7.7-9 70  217A/7.7-9 70  217A/7.10-5 70  Cin. Elec. 70  Cin.	217A/7.7-9 70  217A/7.7-9 70  217A/7.7-9 70  Cin. Elec. 70  Cin. E	217A/7.7-9         70         307           217A/7.7-9         70         307           217A/7.7-9         70         307           217A/7.10-3         70         1007           217A/7.10-3         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1007           Cin. Elec.         70         1000           Cin. Elec.         70         1000           R. 198B/301.2         70         10           Cin. Elec.         70         10	217A/7.7-9         70         30%         1.2           217A/7.7-9         70         30%         2.2           217A/7.7-9         70         30%         2.2           217A/7.7-9         70         30%         2.0           217A/7.7-9         70         30%         2.0           Cin. Elec.         70         100%         4.1         7.2           Cin. Elec.         70         100%         4.1         7.2           Cin. Elec.         70         100%         4.1         7.2           Cin. Elec.         70         100%         4.1         7.2           Cin. Elec.         70         100%         4.1         7.2           Cin. Elec.         70         100%         4.1         7.2           Cin. Elec.         70         100%         4.1         7.2           Cin. Elec.         70         100%         4.1         7.2           Cin. Elec.         70         100%         4.1         7.2           Cin. Elec.         70         100%         4.1         7.1           Cin. Elec.         70         100%         1.6         7.1         7.1           Cin. Elec.	11/4/7,7-9 70

STRESS ANALYSIS

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TOTAL FAILURE RATE . 845660 X10-5 DEGREES CENTIGRADE

Preselector, Band III PASE 2 OF 3

Airborne

25 June 1973

DATE

TEMP.

DRAWING NO. 377450, Tuner

FUNCTIONAL BLOCK \_133\_

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Cemetitor   Col.   C(GOSDELIOLER 1998/1001.2 70   volte 200   1007   Col.   Col.   Col.   C(GOSDELIOLER 1998/1001.2 70   volte 200   1007   Col.   Col.   C(GOSDELIOLER 1998/1001.2 70   volte 200   1007   Col.	° * 8				7				K			1		-	1
The column   Creatio	***				No.	<u>~</u>	*	4313		Mesos	SAJA	200	0,		43,
CGE CGEROSMIGNER 198E/1001.2 70 volts 200 99 90 1077 4.4 0.01 5 90 R34 RCROSGOLO435 199A/301.2 70 mW 125 <1 <1 1007 < 1 0005 5 0 R35 RCROSGOLO435 199A/301.2 70 mW 125 <1 <1 1007 < 1 0002 10 0 R36 R37 RCROSGOLO435 199A/301.2 70 mW 125 <1 <1 007 <1 0002 10 0 R37 R38 RCROSGOLO435 199A/301.2 70 mW 125 C1 1 007 < 1 0002 10 0 R39 R39 RCROSGOLO435 199A/301.2 70 mW 125 O <1 307 < 1 0002 10 0 R39 R40 RCROSGOLO435 199A/301.2 70 mW 125 O <1 307 < 1 0002 10 0 R39 R40 RCROSGOLO435 199A/301.2 70 mW 125 O <1 307 < 1 0002 10 0 R39 R40 RCROSGOLO435 199A/301.2 70 mW 125 C 1 0 0 0 R40 R27 L27 L28 R40 RCROSGOLO435 199A/301.2 70 mW 125 C 1 0 0 0 R40 R40 R40 R40 R40 R40 R40 R40 R40 R4	MN NO	25			)345 1345	de l'	7000	AST NO.		53.	A PO	2412	184	. `	100 T
R34   RCRO5620435   1994/301,2 70   with   125   c   c   1   1007   c   1   0   0   0   0   0   0   0   0   0	Cepacitor	C61		CKR05BX102KR	1988/1001.2	7.0	volte	200	ĺ	96	1032	4.	7-64	1.	00.5
R34   RCRO5G204J5   1994/301.2   70   m/4   125   4.1   100%   4.1		CB		CKR058X102KR	1988/1001.2	70	volte	200	22	2	1007		.0005	-	000
R36   RCROSG102.1S   199A/501.2   70 mW   125   6   10   1007,   1.1   0.002   1.0	Resistor	R34		RCR05G204JS	1994/301,2	70	7.0	125	ł		1007	1 '	+-	<b> </b>	ŝ
R36   RCRO5G202JS   199A/301.2   70   mW   125   6   10   30%   6 . 1   10002   10   10   10   10   10   10		235		RCR05G302JS	199A/301.2	70	ME	125		3	1001	┆ •	1-	↓_	003
R36   RCRO5G3331S   199A/301.2   70 mW   125   0 < 1   307   < .1   .0002   10     R39   RCRO5G104.3S   199A/301.2   70 mW   125   0 < 1   307   < .1   .0002   10     R49   RCRO5G303JS   199A/301.2   70 mW   125   0   < 1   307   < .1   .0002   10     R40   RCRO5G302JS   199A/301.2   70 mW   125   < 1   < 1   1007   <     .0002   10     L27   Lenex Fuelle   NR10   217A/7.7-9   70 mW   125   < 1   < 1     1007   <     .2     R.C     L21   Cita. Flec.   217A/7.7-9   70 mW   125     20     .2     307     .2     10     L22   Cita. Flec.   217A/7.7-1   .257 mW   400   0   .6   307   < .01   .575   8   1     O4   JAN2N2907   217A/7.7-1   .257 mW   400   0   .6   307   < .01   .575   8   1     L22   RCRO5G303JS   RCRO5G303JS   RCRO5G303JS   RCRO5G303JS   RCRO5G30JS		R36		RCR656202JS	199A/301.2	70	温	67	•	10	30%	٠.	<del> </del>	<del> </del>	000
R36   RCROSGIOGAJS   199A/301.2   70 mW   125   0 <1   30%   < 1   0.002   10   0.0		R37		RCR05G333JS	1994/301.2	70	A	125	0		30%			-	000
R40		R38		RCR05G104JS	1994/301.2	0/	Win	125	0	ı	30%	١.	<del>\</del>	↓_	0000
R&C   RCROSG302JS   199A/301,2   70 mW   125   1107,		R39		RCR05G303JS	1994/301.2	70	P.	7	0	1	30%		<del>                                     </del>	<u> </u>	9000
L27       Lenex Fugle       NR10       217A/7.7-9       70       mW       125       90%       .2       8.6       1.0       .6         T11       Cia. Elec.       217A/7.7-9       70       30%       .2       10       .6         T12       Cia. Elec.       217A/7.7-9       70       30%       .2       10       .6         Q5       Silicolix       U320       217A/7.4-13       .42       watte       3       0       .15       30%       .05 566       8       1         Q6       JANZN2907       217A/7.7-13       .257       mW       400       0       .6       50%       c.01.575       8       1         1		R40		RCR05G302JS	1994/301,2	70	A A	125			1007	1 3	<del>`\-</del> •	<u> </u>	.002
T12 Cin. Elec.  217A/7.7-9 70  T12 Cin. Elec.  217A/7.7-13 .42 Watte 3 C .15 30% .05 .66 8 1.  06 Silicentx U320 217A/7.4-13 .257 mW 400 0 .6 30% < .01 .575 8 11.  06 Silicentx JANZN2907 217A/7.7-13 .257 mW 400 0 .6 30% < .01 .575 8 11.	Inductor	_	Lenox Fugle	NR10	217A/7.7-9	70	音	125			30%		<del>-</del>	8	
112 Cin. Elec. 217A/7.7-9 70 3G, 6.6 6 6 1.0 6 51 10 6 6 6 8 1.0 6 6 6 6 1.0 6 6 6 6 6 1.0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Transformer	_			2174/7.7-9	70					30%			10	1 VC
05 Silicenix U320 217A/7.4-13 .42 watte 3 C .15 30% .05 666 8 1. 06 JAN2N2907 217A/7.7-13 .257 mW 400 0 .6 50% < .01.575 8 1.		T12			2174/7.7-9	70					30%		2.3	9	1 4
06 JAN2N2907 217A/7.7-11 .257 EW 400 0 .6 50% < .011.575 8 1.		95	Silicentx	U320	-65	.42	Watte	3	0		392	0	-	α	1 538
	ENP Translator			JAN2N2907	217A/7.7-13	57	Min	400	0	9.	30%	9	<del>`</del> +-=`	00	
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25 June 1973 DATE TEMP,

FUNCTIONAL BLOCK Preselector, Band III Afrborne

DRAWING NO.

TOTAL FAILURE RATE . 57423

DEGREES CENTISPADE

12 1655	S ANAL	ANALYSIS												
'w.			*	3764	3	*	431		1N3	SNI	3704		f	10.
AND MAL	45	Sen's	JOHNA 1400	Sage S	83.000 i	O VOVO	SWARE		S3/10	AL PO	2710	D		4 .30 T
Capacitor	C16		CKROSBX102KR	1988/1001.2	70	volts	200	0	5	500		0005	ar,	.0225
	27		CK3053X102KR	1988/1001.2	70	volts		0	2.5	£.	1	0005	ıc	0002
	C18		1,01-34-58	217A/7.6-25	7.0	velts		0	ė •	30%	-	200	, ,	000
	C19		1501-36-55	2174/7.6-25	70	volts	100	0	-:	506	1	002	5	600
	CZ0		1501-36-60	217A/7.6-25	70	volts	100	0	2.5	30%	~;	302		600
	22		1501-36-71	217A/7.6-25	70	volts	100	0		30%	_	003		000
	C22		1501-36-53	217A/7.6-53	7.0	volts	100	0	2,5	305	1	200		900
Resistor	R10		KCR05G202JS	199A/301.2	70	ni.	125	0	22	30%	1.	.0002	10	0018
Inductor	1.8	Lenox Fugle	NRIO	217A/7.7-9	70					90.		2	8.6	1.548
	13	Cin. Elec.		2174/7,7-9	7.0					206	•	.2		1.548
	110	Cin, Elec.		217A/7.7-9	70					206		2	و ا	1.548
Mxer	UI	Relcom	МбБ	21/A/7-4-11 2-7-9	70					.206		15.05		13.54
Connector	P1	Microdot	141-1005-0001	RADC II/191	70					90%		38	.5	0162
	P2	Amp	85930-4 8p	RADC 11/191	70					1007	•	00387	5.	001935
	P3	And	85930-4 10p	RADC 11/191	70					100%		00435	5.	002175
	57	Microdor	141-1005-0001	RADC: 11,/191	70	<del>-  </del>				30%	<del>                                     </del>	036	5	<del></del>
	P5	Microdot	141-1005-0001	RADC II/191	70					30%		036	5	0054
				•						-		-		
								1	1	4	1	1	1	7

TEMP. DATE 25 June 1973

FENCTIONAL BLOCK Mixer and Connectors Airborne PAGE 1 OF 1

-135-

DRAWING NO. 377450, Tuner

TOTAL FAILURE RATE 1.827141 X10-5

T\_\_\_\_DEGREES CENTIGRADE

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	.w.e		1		37			0		14	24	37		1	1
*	340 A	1	JOBNY ASSI	TAI ABE	(B) (7)	19	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	31345	1	(S) (S)	AITA 9	5534		. ``	4 07
2/		5			25 S	_	440	180		90	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	rs	<b>*</b> y		03
	Cepacitor	13		1501	217A/7.6-25	20	Volta	100	0	-	206	\ \ \ \	.002	רט	600
		2		1501-36-60	217A/7.6-25	20	volts	100	0		206	7.7	002	2	000
		3		CKR05BX103KR	1988/1001,2	20	volte	100		1	1007	\ \ \	0005	٠,	.0025
		3		CKR05BX103KR	1988/1001.2	70	volta	ļ	5,	.5	100%	٠.	0005	S	.0025
		బ		CKR05BX103KR	1988/1001.2	70	voite	100	5	5	1007,	1. >	0005	2	.0025
		3		CKR05BX103KR	1985/1001.2	70	volte	100	5	5	100%	0		2	0025
	Kesistor	2	•	RCR05G123JS	1994/301.2	20	H,	125	۲ ۲	<b>61</b>	1007	۲, ۶	0007	10	005
		R2		RCR05G393JS	199A/301.2	70	Wil	125	< 1	<1	100%	1. >	.0002	10	.002
		2		RCR05G100JS	199A/301,2	70	MY.	125	2.5	2.5	1007	1, 2	0007	10	.002
	Inductor RF	13	Lenox Fugle	NR3.3	217A/7.7-9	70					1007		.2	8.6	1.72
		77	Lenox Fugle	NR3.3	217A/7,7-9	70					100%		2	8.6	1.72
	Hybrid	HX	Cin, Elec.	376259	USAECOM	70					1001		2.7864	•	2,786
		HY2	Cfn. Elec.	376259	USAECOM	70					1001		2,7864		2,786
		HY3	Cin. Elec.	376259	USACEOM	70					100%		2.7864	,	2,785
		HY4	Cin. Elec.	377668	USAECOM	70					2001		5.0344	•	5,034
.	Eunnector	<u>1</u>	Merodot	141-1002-0001	RADC 11/19	70					206		036	5.	0162
		P2	Microdot	141-1002-0001	RADC 11/191	70					701		036	5.	0018
	Crystal Fil.	113		376270	217A.7.12-3	70					897		7.08	•	3, 631
		FL2		376252	217A/7,12-3	70					757		80.		1.836
	Hybrid	HXS	Cin. Elec.	376261	USAECOM	70					1007		5362		5362

X10.5 DEGREES CENTIGRADE TOTAL FAILURE RATE 2.2889 25 June 1973 Airborne Receive IF DATE

> PAGE 1 OF -136-

TEMP.

FUNCTIONAL BLOCK

DRAWING NO.

•	. L2 ESS		AN AL YSIS												
	.w.s.				378	1	*	43		11/3	SN,	32		1	**
* MQLI	into de la constitución de la co	A'S	SOBNIS SOBNIS	TARA	APPLICATE SOL	KA GROZ	S. A. A.	C31 vo		10531/10	TAP390	223972	0 43	. •	3084 8
	Hybrid	9ХН	Cin. Elec.	376261	USAECOM	07			- 1		100			1 1	
7	Cryste! Fil.	FL3		376270	2174/7.12-3	70					1004		7367 80		7957
1				376251	217A/7.12-3	70					17		200		0,00
				376251	217A/7.12-3	70					17,		80		8070
	Capacitor	Ċ3		CKR05BX103KR	198B/1001,2	70	volts	200	٥	1	10%	7. V	0005	5	0025
7	Resistor	R4		RCR05G911JS	1994/301.2	70	¥	125	12	< 1	1007	- V	000	٤	000
		R5		RCR05G101JS	199A/301.2	70	m¥.	125	77	,	100,	• •	000	10	6
		R6		RCR05G274JS	199A/301.2	7.0			10	2	100%		0002	2 5	600
+		R7		RCR05G274JS	199A/301.2	70			15	10	100%	1.7	0002	2	500
1		R10		RCR05G151JS	199A/301.2	70			0	1	10%		0002	10	902
1	Inductor	13	Cin. Elec.	377402	217A/7.7-9	70					1007		2	8.6	1,72
+		2	Lenox Fugle	NR82	217A/7.7-9	70					100%		.2	8,6	1.72
+		1.5	Lenox Fugle	NR82	217A/7.7-9	70					100%		. 2	8.6	1.72
$\dagger$		91	Lenox Fugle	NR82	217A/7.7-9	70					100%		2	8.6	1.72
+		77	Lenox Fugle	NR82	217A/7.7-9	20					100%		. 2	8.6	1,76
,	ì	82	Lenox Fugle	NR82	217A/7.7-9	70					100%		.2	8.6	1.72
+		1.9	Lenox Fugle	NR82	217A/7.7-9	70					100%		.2	8.6	1.72
+		917	Lenox Fugle	NR82	217A/7.7-9	70					1007,		2	8.6	.72
+		1	Lenox Fuzle	NR82	2174/7.7-9	70					100Z		. 2	8.6	.72
1		L12	Lenox Fugle	NR82	2174/7.7-9	70					1001		2	8.6	.72

TOTAL FAILURE RATE 1,96255 X10-5
AT\_\_\_\_ DEGREES CENTIGRADE

FUNCTIONAL BLOCK Receive IF Airborne PAGE 2 OF 3

DATE 25 June 1973

DRAWING NO. 327400.

-137-

# .# ·301 2,376 A Faster 37 14 8 BAITINE 017 84 .297 279655 ×.01 3Dro rue 100% ON I VY BOO INGUSSINO N OFFE PARMETER 150 .36 JAPOLICABLE 217A/7.4-13 438MM -file arss analysis

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X10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE . 2376 25 June 1973 Airborne Receive IF DATE

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FUNCTIONAL PAGE 3

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DRAWING NO.

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1	``.		\	<b>.</b> 5.	\	370		40	ده	\	٠ ١	2N.	કેઇ \	\		4	*
્ 1ઇ	JAN TO TO		SUNDEN	d'Su	Jaha 141	, J. J. J. J. J. J. J. J. J. J. J. J. J.		B.C.	13m	Q;	253	788	5536	<i>``</i>		338	
1/	1	1	4		ON TO	as as	1	~	4	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	90 \ \ \	* No	XX2	N. S.	`	301	<u>\</u>
	Resistor	RI			RCR05G105JS	199A/301.2		吾	125	1	12	100	Ţ	0000			<del>\</del>
		R12			RCR05G105JS	1994/301.2	70	音	125	i	1	2001		2000	2 5	700	-
		R13			RCR05G105JS	1994/301.2	70	语	125			100		2000	2 :	700	· 1 -
		R14		+	RCR05G105JS	199A/301.2	7.0	즙	125	1		1001		7000	9 :	700	
		R15	.	+	RCR05G105JS	199A/301.2	3/	쥴	125	41	i	1007		2000	3 5	200	
		R16		+	RCR05G105JS	199A/301.2	70	TEL	125	< 1	7 7	1007	7	<del>'}</del> '	10	200	
		R17		+	RCR05G105JS	1998/301.2	70	ΔM	125	7	7	1007	7	_	10	200	
	Capacitor	83			CKRC6BX 104KR	1988/1601.2	70	volts		105		1	2	0015	2	0075	<del></del>
	LSI	<u>U7</u>		1	377670		70				ĺ		1	3 7		,	<del></del>
	Hybrid	U8		1	377671	LSAECOM	70					100		8700		4	<del></del>
T	MSI	60		-	377669		02					100			•	100	) 
	Connector	P3	Amp		1-85930-1 31h	BADC II/10	70				-	7007		2.7	•	1.5	
				-	1	61/11 Sam	.]					100%		.00976	5	.00488	
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Band and Tuner Control Airborne DATE 25 June 1973 FUNCTIONAL BLOCK TEMP.

DRAWING NO.

×10-5 TOTAL FAILURE RATE 1.009698

DEGREES CENTIGRADE

PAGE 1 OF -139-

	(12 TRESS	AN AL YSI	s												
	.w.®		;s 		3 76	1	1	83		4NS	SN,	32			16
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W.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	u	4.8	5 3	2	80	10		0	io .	2	y	į	2
	Capacitor	C1		NP105A-10	217A/7.6-81	70	volts	4	0		706	.02	.0012	,	.00108
		C2		VK30BA472K	217A/7.6-57	70	volts	50	10	2	1007	12	.0071	5	0355
		8		VE30BA103K	2374/7-6-57	70	volts	50	10	9	1002	7	0071	۳	.0355
		<b>S</b>		S685R-10	217A/7.6-81	7,	volts	35	12	12	1007	.34	003		.003
		90		J226R-10	217A/7.6-81	70	volta	35	12	12	100%	.34	003	1	.003
		C2		J226R-10	217A/7.6-81	70	volts	35	12	12	100%	.34	003	•	.003
		83		J226R-10	217A/7.6-81	70	volts	33.	12	27.	1007	,34	.003		.003
	Resistor	R1		RCR05G274JS	1994/301.2	70.	Ma	125	.1	.1	100%	4.1	0005	10	002
		R2		RCR05G274JS	1994/301.2	70	冶	125	1	1,	100%	4.1	1 0002	10	.002
		83		RCR05G274JS	1994/301.2	70	E.	125	.1	.1	100%	×.1	.0002	10	002
		R4		RCR056182JS	1994/301.2	70	Mar.	125	<.1		100%	۸.1	.0002	10	.002
		RS		RCR05G514JS	1994/301.2	. 0/	Me	125	5,	5	100%	<u>v</u>	.0002	10	200
		86		RNSSD	217A/7.5-27	70	N.	125	5.	.5	100%	ر. ب	. 42	~ 	.126
		R.7		RCR05G514JS	1994/301.2	70	'Age	125	.5	5	1,001	4.1	, Or 32	21	.002
		R8		RN55D	217A/7.5-27	70	ME	125	•5	ω)	1007.	\ \ 1.1	42		.126
		RII		RCR05GXXXJS	199A/301.2	70	畜	125	41	-1	1007	 	.0002	10	,002
		R12		RCR05GXXXJS	199A/301,2	70	iğ.	125	•1		1007	7	.0002	01	.002
		R13		RCR05GXXX.1S	1994/301.2	70	Man	123	4		1007	7	,0002	10	200
		R14		RCR05GXXXJS	1994/301,2	70	Mm	125	1	e-1	1007	2.1	.0002	10	,002
		R15		RCROSGXXXJS	1994/301.2	70	Mш	125	긕		1007	<u> </u>	0007	10	,002

X10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE . 035808

> FUNCTIONAL BLOCK PAGE 1 OF

TEMP.

Receive Audio Airborne

DATE 25 June 1973

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DRAWING NO.

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181	SWA LOVE I	rus	JOHNA JOHNAN	A SB MAN	APPLICA Spec	By due i	D'A PA	13WAYA		1053170 1083170	A NA 3 AO	253972 C) 100	0,13	. \	301
ı	Resistor	Ri6		RCR05G	1694/301.2	لــــــــــــــــــــــــــــــــــــــ	min	125	20	20	1007.	<.1	.0002	10	.002
- 1		R17		RCR05G	1994/301,2	70	¥	125	20	20	1001	<b>5.1</b>	.0002	10	.002
ĺ	Hybrid	U1	Cin. Elec.	377662	USAECOM	70					100%		4.8487		4.8487
ĺ		U2	Cin. Elec.	377663	USAECOM	70					100%		4.6742	•	4.6742
	181	70	Cin. Elec.	377664	USAECOM	70					100%		3.7	•	3,7
ſ		US	Cin, Elec,	377665	USAECOM	70					100%		3.7	•	3.7
ĺ	Hybrid	nę	Cin. Elec	377666	USAECOM	70					100%		7.7879	•	7.7879
ı		n8	Cin. Elec.	377661	USAECOM	70					100%		3,4776	•	3.4776
	Connector	P1	Атр	2-85928-2 30p	RADC_II/191	70					100%		9600*	.5	.0048
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DEGREES CENTIGRADE TOTAL FAILURE RATE 2.81972 25 June 1973

Receive Audio Airborne FUNCTIONAL BLOCK PAGE 2 OF

DRAWING NO.

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	W. 8.			\	J'M'		\ <b>1</b> 0	43.		1/3	34/	32		1	10	8.
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	Resistor	R10		RCR07G562JS	199A/301.2	ч_	看	250	10	41	100	1 2		-		<b>\</b>
		RII		RCR67G750JS	159A/301.2	70	语	250	0	~	10.	oi :	2000	01	0007	<del>-   -</del>
		R12		RCR07G7 30JS	199A/301,2	70	温	250	0	<b>k</b> 1	10.1	4 4	.0002	10	0007	<del></del>
		R13		RCR076473JS	1994/301.2	70	Mg	250	C	ı,	192	1   v	.0002	10	0002	· <del></del>
1		R14		RCR076473JS	199A/301.2	70	J.	250	0	2 2	10%		.0002	10	000	<del></del>
	Capacitor	3		DM5C050DP	217A/7.6-21	70	volts	300	0	15	10,	7.1	.0003	15	0000	T-104
		345		DM5C390GP	217A/7,6-21	7.0	volts	300	0	15	101	\ \ 1.	.0003	15	00045	רער
1		C47		CKR05BX102KR	198B/1001.2	0/	volte	200	0	7	Ę	4.1	0005	5	0000	- Marie - Mari
	O de la companya de l	873		CKR05BX102KR	198B/1001.2	20	volte	200	o	7	107	4.1	0005	.,	0007	1
1		67,0		CKR05BX102KR	198B/1001.2	76	volts	200	0	7	10	-	5000	, ,	0000	1 <del>17</del> tr
		25		CKF05BX102KR	1988/1001.2	5	volts	200	0	,	13	٠ı	0005	15	0002	1-2-6
1	Inductor	1.25	Cin. Elec.		217A/7.2-9	7C					3 5	4	2	8.6	177	
1		125	Cir. Flee		217A/7.2-9	70					3		^	• 1	17.2	
1		127	Delevan	1025-32	217A/7.2-9	70					101		~	. ,	173	
1		1.28	Deleven	1025-32	217A/7.2-9	70					195		2		172	
,	Transformer	7.4	Cin. Elec.	·	217A/7.2-9	70					10%		.2		2	
1	Diede Si	CR7	Mew. Pac.	HP5082-2800	217A/7.4-11	.257	Ye	250	0	77	107.	4.1	.227	3.5	0795	
+		CR8	Hew. Pac.		217A/7.4-11	.257	·š	250	0	4.1	10%	4.1	.227	3.5	0795	
+	Connector	Pl		51-728-000-20	RADC 11/191	70					10%		.036	3.	0013	
1		F2		51-728-000-20	RADC 11/191	70					107		.036	5.	.0018	

DATE 25 June 1973 FUNCTIONAL BLOCK

RF Power Meter Airborne

377257, Filter Assembly DRAWING NO.

X10-5 TOTAL FAILURE RATE . 10535

DEGREES CENTIGRADE

A . A . 301 000206 40308 Y 37 12 FALLURE ,00412 OITM 279655 3 Dro was 192 ONITARIAGO ANSOSSINO O31 PH 4313MPARA 10 . GR. 7 70 JEAN JOO H BEHANN RADC II/191 TAPA 1.0 9p MAREA MANUFAC S. RESS ANALYSIS TOBAUS **P3** 340N Connector 44kg TEMP - 144-W.B.

×10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE, CO00206 25 June 1973

FUNCTIONAL PAGE

RF Power Meter Airborne BLOCK P.

377257. Filter Assembly DRAWING NO.

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	.w.ø.				376		4	83		1x	34	32			*	14
* Max	ANN AND AND AND AND AND AND AND AND AND	45	SANUE AS INDENDED	TONA	Application of the state of the	07. Gles	O'S O'S	O31 NO		305317c	11 k 3 3 90	553415 10 11 PC	0,13		700	• •
	Capacitor	C15		ATC100B4R3BRW	217	70	volte	T.	- 1				5			
		C16		DMSC130DP	1	7.0	volte		> -	1	7 .	1:	970.	2	2	
		C17		DM5C330DP	21747.6-21	70	volte	L	) c		9 2	1.	0003	: [٢	777	<u>د</u> م
		C18		ATC10089RIBRW		70	volts	<u>L</u>		7 7	, , , , , , , , , , , , , , , , , , ,	10 7	• 0003	<u>.</u>		'n
		613		DM5C430DP		70	volts		0	30	37.		0003	51	00013	ď
		C20		DM5C101GP	2174/7.6-21	70	volte	300	0	30	37.	-	0003	15	2000	ט ר
		2		DMSC910GP	217A/7.6-21	70	volte	ĺ	0	30	35	1	000	1 5		٠, ١
		C22		DM5C910GP	217k/7.6-21	7.0	volt	300	0	30	35	-	0003	1.	-	·
	·	C23		DM5C330DP	217A/7.6-21	70	volte	300	0	30	37	-	0003	1 2	TT - TT	
T		జ		CKR05BX103KR	198B/1001.2	70	volte	100	0	24	3%	.24	0005	7	77	
		C11		CKR055X103KR	198B/1001,2	70	volts	100	0	24	37	.24	0005	5	000075	
	Inductor	27	Delevan	1025-32	217A/7.7-9	2					3,5		7	8.6	0516	
		9]	Delevan	1025-32	217A/7.7-9	70					37.		2.		.0516	
1		[7]	Delevan	1025-32	217A/7.7-9	20					37.		.2		0516	
T		1.8	Delevan	1025-32	217A/7.7-9	2					3%	-	2	8,6	0516	
1		1.9	Cin. Elec.		217A/7.7-9	2					3%		27	8.6	0516	
1		110	Cin. Elec.		217A/7.7-9	20					3%		2		0516	
+	Reiay	Z		GB-831C-5F	217A/7.10-5	70					3%		101	10	1515	
1		72		GB-831C-5F	217A/7.10-5	70					3		101	٥	1518	
1		C14		CKR05BX103KR	1988/1001.2	70	volts	160	77.	77	1007	.24	0005	~	0025	

TOTAL FAILURE RATE .0644275 X10-5
AT DEGREES CENTIGRADE

PAGE 1 OF 2 DRAWING MM. 377257 Filter Assembly

Airborne

Filter, Band I

DATE

FUNCTIONAL BLOCK

	31 ESCENTING OFFE SO SEE SO SEE SO SEE SEE SEE SEE SEE S	0005 5 0	2 8.6	α.	K.1 255 3 5	3% < 1 255 3 5	.1 0003 15											
		0			0	0	0									+	<del></del>	+
	A3T3MAPA				7.5	7.5	300											
	20 GHB 1	volte			A.A.	¥	volts			 	_		-				-	
			70	70	1 30	1 30	1 70		-	_	_	 		 				
	3 16 10 Jack	198B/1001,2	217A/7.7-9	217A/7.7-9	217A/9.4-11	217A/8.4-11	217A/7.6-21										-	
	A SHANN TAPA				Janin4148	JANIN4148	DM5C120DP								٠			
7515	JOBNAS JOBNAS		Cin. Elec.	Cin. Elec.				٠										
S AWALYSIS	THIS .	C42	111	112	CRI	CR4,	C151											
-712 RESS	W.B. WAI!	Cepacitor	Inductor		Diode St		Capacitor											
•	"Rel														,			!

AL BLOCK	7
FUNCTIONAL BLOCK Filter, Band	

TOTAL FAILURE RATE 01570100 X10"5
AT DEGREES CENTIGRADE

DRAWING NO. 377257, Filter Assembly

	83 <i>21</i>	ESS ANAL	ANALYSES												
" TELL	W.B.	26	SPAROL STREET	A SEMIN A SEE SEE	APPLICABLE SPECIALE	TANK TO THE PARTY OF THE PARKET	10 KI	A313MAAN'S O31AA	1	Wassilvo Wassilvo	SWITTER 340	3120 410	1 0, 13		2010E A 301
	Capacitor	C24		ATC100B3R0ERW	217A/7.6-59	70	volts	<u> </u>	0	717	3.6	7	9,00	٥	01,0
		C25		D#5C180DP	217A/7.6-21		volte	<u> </u>	0			• 14	0003	2 1	5003
		626		DM5C240DP	217A/7.6-21	70	volte	300	0	<1 >	3%	4.1	0003	:	000
		C27		D#5C130DP	217A/7.6-21	70	volts	300	o	77	37.	4.1	0003	15	00013
		C28		DM5C30CDP	217A/7.6-21	70	rolts	300	0	30	3%	-:	0003	15	.000135
		623		DHSC360DP	217A/7,6-21	70	volts	300	0	30	3.2	.1	.0003	15	.000135
		C30		DM5C33GDP	217A/7-6-21	70	volte	300	٥	30	37.	1,	0000	15	.00013
		31		DM5C330DP	217A/7.6-21	70	volts	300	0	30	3%	-:	0000	15	00013
		32		DM5C130DP	217A/7.6-21	70	volts	300	0	30	3%	1.	.0003		.00013
		బ		CKR05BX103KR	193B/1001.2	70	volts	100	0	24	3%	.24	0905	30	. 00007
		Ci2		CKROSEX103KR	198B/1001,2	70	volts	100	0	24	3%	.24	0005	5	GC007
	Inductor	113	Delevan	:025-32	217A/7.7~9	70					37.		°2	8.6	•0516
		114	Cin. Elec.		217A/7.7-9	20					3%		.2	8.5	.0516
		115	Cin. Elec.		2174/7.7-9	70					37.	7	.2	8.6	.0516
		116	Cin. Elec.		217A/7.7-9	0/					37,		.2	8.6	9150.
,		117	Cin. Elec.		217A/7.7-9	70					37.		.2	8.6	.0516
		118	Delevan	1025-32	217A/7.7-9	70		-			3%		ړ 2	3.6	.0516
	Relay	E	Teledyne	4110-26	217A/7,10-5	70					8		101	30	.1515
T		777	Teledyne	4110-26	2176/7,10-5	70					3%		101	50	.1515
7	Capecitor	543		CKROSBX103FR	193B/1001.2	7.0	volts	100	0	24	37.	.24	0000	5	20000

TEMP. DATE 25 June 1973
FUNCTIONAL BLOCK Filter, Band II Airborne
PAGE 1 0F 2

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TOTAL FAILURE RATE .. 0627745 X10-5
AT DESREES CENTIGRADE

DRAWING NO. 377257, Eliter Assemb

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	33.00	C KO	0268	0268	000135	000135																	
			5.5	3,5	15	15																	
	3477	Α.	55	255	0003	.0003					-		-	<del> </del> -	-			-	-		-	-	
	25	4	1 62	1 2	1 0	1			-	-	-		-	-		-		-		<b> </b>	-	-	
	100 d	120	V	7		•			<u> </u> 	-		-		_		_	-	_	_	-	-	-	
,	SNILVYS		37.	37	3%	3%				_					<u> </u>								
	IN3053	40	2 2	ر 5	30	30															] 		
			0	0	0	0																	
	03	i ve	75	75	300	300						_											
	e 313m	W.			volts	volts			-						-			 					
	19.00	(a)	.30 mA	30 m.	70 vc	70 vo				_	-		_		-								
		*	L	•			_	 								-		ļ 			-		
	3 70 'S'	200	2174/7.4-11	217A/7,4-11	217A/7.6-2i	217A/7.6-21													 				
		40	2172/	217A/	217A/	217A/												•					
	4384	_	~	~						· · ·									-				
•	4784	4	JAN1N4148	JAN1 N4 148	DM5C300DP	EMSC100DP																	
!			JAN	JAN	DM50	DM50					_												
	WUFAC.	N.		ļ					٠														!
s		**																					:
ANALYSI	"QU'A	3	CR2	CRS	C31 ?	C321														-			
			3	3	3	<u> </u>																	
S. KESS	3: <sub>1</sub>	ra ra	St		tor																		1
2	'W. O	ø	Diode		Capacitor											9	·						
<u>ا</u> ت	'A'-8	W.			-																	_	
		1	-	1	1	-										Ì	1	,					

TOTAL FAILURE RATE 005387 XIC-5 DEGREES CENTIGRADE

> Filter, Band II Airborne FUNCTIONAL BLOCK PAGE 2 OF -148-

25 June 1973

DATE

TEMP.

DRAWING NO.

	112 RESS	S ANALYSIS	rsıs												
4	W.B. WHEL	108145	MANUSAC.	TARA	JAPI ICABLE	10 th	AL OF A	A3T3WAAA		OUI ESCENT	SNITA PAGO	31200 1000	0,13		20.30 P. A. 30 J. A.
	Capecitor	C33		ATC100B2R0BRW	217A/7.6-59	7.0	volts	300	- C	41	37	2.3			01404
		C34		D#5C130DP	217A/7.6- 21	7.0	volts	300	0	<b>1&gt;</b>	37,	<.i	0003	15	000135
		<b>c35</b>		ATC10089R18RW	217A/7.6-59	7.0	volts	300	0	<b>1</b> >	37	4,1	026	18	01404
		C36		ATC100B9R1BRW		70	volts	300	0	1>	3%	<.1	026	18	01404
		C37		DM5C100DP	2175/7.6-21	20	volts	300	0	30	37.	٠1	,0003	15	000135
		C38		DMSC510DP	717A/7.6-21	7.0	voits	300	0	30	7.8	,-4 •	0003	15	000135
		C39	•	DMSC470DP	217A/7.6-21	70	volts	300	0	30	37.	.1	0003	15.	000135
		070		DMSC470DP	217A/7.6-21	70	volts	300	0	30	3%	٠,	0003	15	3000135
		C41		ATC100B9R1BRW	217A/7.6-59	70	volts	300	0	30	3%	.1	.026	18	0140
		010		CKR05BX103KR	1985/1001.2	70	volts	100	0	24	37.	.24	0002	5	.000075
		C13		CKR05BX103KR	1985/1001.2	70	volts	100	0	24	37.	, 24	2000	5	000075
	Inductor	119	Delevan	1025-32	217A/7.7-9	70					32		.2	8.6	0516
		1.20	Cin. Elec.		217A/7.7-9	70/					37.		.2	8.6	9150
	-+	123	Cia. Elec.		2176/7-7-9	70					37.		2	8.6	0516
		1.22	Cia. Elec.		217A/7.7-9	70					3%		.2	8.6	0516
٠		L23	Cin, Elec.		217A/7.7-9	70					37,		.2	8.6	0516
		1.24	Delevan	1025-32	217A/7.7-9	70					3		.2	8.6	0516
	Reley	KS	Teledyne	411D-26	237A/7.10-5	70					37		101°	50	1515
		K6	Teledyne	411D-26	217A/7,10-5	70					37.		101	50	1515
	Capacitor	777		CKR05BX103KR	1988/1001,2	70	volte	100	0	24	3%	.24	5000	5	00000

TOTAL FAILURE RATE .. 0672085 X10-5
AT DEGREES CENTIGRADE

FUNCTIONAL BLOCK Filter, Band III. Afrborne

DATE 25 June 1973

TEMP.

DRAWING NG. 377257, FILLER ASSEMBLY

Capacitor C53  Capacitor C54  Inductor L34  L35	JOBINS C.	_		ò (	T3H	•			<b>&gt;</b>			,	•
Ctor C	Y	MART	APPLICA SPEC.	Tops Car	SANO	TING	253100	(NA300	7/20	SPA	7183	88	202
ctor		000750350	<del></del>	0,2	1:0	0	0		37.	7.	0003	15	000135
		AUDIC DE LA	ع ا			300	الا 0		376	1	5000	4	5000
		DMSC510BP	-	Π	<u> </u>	<u>-</u>			3%	1	7	मुं ब	9150
136	Cin. Elec.		277/10/20	1	-				3%	1	7	मुख	0516
136	Cin. Elec.		2-1-1/V/17	1 5			-		37		2	98	9150
	Cin, Elec.		2174/7.1-9	7					3.6		2	98	9150
1.37	Cip, Elec.		2176/7.7-9	8	+				37		2	9.8	3150
135	_		2174/7,7-9	20	+-	1	+-	1.		1	255	3	.0268
2		JAN1N4148	217A/7.4-11	30	YE	75		1	T		3 2	~	0268
+		TAN1N4148	217A/7,4-11	30	Am	73	1	1	Т	;	7 2	10	0140
CKO	-	1:daogogogog		70	volts	300	0	-	3%	-	970.		
Capacitor C35'	-	ATC: UUBSKUBKW	_	Τ	0410	300	0	30	37.	щ.	.0003	12	0001
C37		DM5C130DP	217A//.6-21	?	VOI LE			S	2	-:	.0003	15	0001
C41		DM5C100DP	217A/7.6-25	2	volts			3					
						1							
			-										
				-									
				-									

TOTAL FAILURE RATE 1032618 X10-5
AT DEGREES CENTIGRADE

FUNCTIONAL BLOCK Filter, Band III

DRAWING NO. 377257. Filter Assembly

Airborne

DATE 25 June 1973

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TEMP.

	. 12 ESS	S ANALYSIS	YSIS												
" rai	in. 8	"ALS	SPABOL TURER	SEMIN LOVA	APPLICABLE.	49 · 349 %		A313WAAA		OUIESCENT BASISTINO	SWITAR340 AT JO	3 20-0-4170	0,13	1 .	# 4 · 301
	Capacitor	ដ		CKR05BX103KR	198B/1001.2	70	volts	100	1	2	102	1:	0005	5	00025
		23		CKR05BX103KR	198B/1001.2	7.0	volts	100	0	24	19	.24	0005	5	60025
		ខ		CKR06BX105KR	1988/1001.2		volte	50	0	12	102	. 24	_	5	0.0025
		<b>7</b> 0		CKR06BX105KR	1988/1001.2		volta		0	24	107.	.48		Ş	7007
		3		DMSC101JP	217A/7.6-21	20	volte	300	0	10	10%	د ۱	0003	15	00045
		3		CKR06BX334KP.	1988/1001.2	70	volts	50	0	10	10%	,2	2000	5	.00025
		5		CKR05BX103KR	198B/1001.2		volts	100	0	24	191	.24	0005	5	0000
		C51		DMSC101GP	217A/7.6-21	7.0	volts	300	0	د ۱	10%	<,1	.0003	15	. 00045
		C52		DM5C181GP	2174/7.6-21	70	volts	300	0	1 >	107.	<.1	.0003	15	0007
		C53		CKR05BX103KK	198B/1001,2	70	volts	100	0	77	102	.24	5000	5	.00025
		C54		CKR05BX103KR	198B/1001.2	70	volts	100		24	10.0%	.24	0005	2	0025
		C\$5		CKR05BX103KR	198E/1001.2	70	volte	100	0	24	10%	, 24	0005	v	00025
	Resistor	RI		RCR07G104JS	1994/301,2	70	M'M	250	0	1	10%	<,1	,0002	10	. coc2
		<b>R</b> 2		RCR07G300JS	199A/301.2	70	μM	250	0	12	10%	1	.0002	10	.0002
		83		. 2 ohm 5W	217A/7.5-25	70	m <sub>K</sub>	500	0	130	107.	.26	.21	• 3	.0063
,		R4		RCR07G752JS	199A/301,2	70	ZE	250	0	3	10%	<,1	.0002	10	.0002
		83		RCR0762523S	199A/301.2	70	Med	250	0	< 1	10%	۷.1	,0002	10	.0002
	Inductor	13	Ferroxcube	VK200-20/4B	217A/7.7-9	70					107.		. 2	8.6	.172
		1.2	Cin. Elec.		217A/7.7-9	70					107		. 2	8.6	.172
		1.3	Ferroxcube	VK200-20/4B	217A/7.7-9	70					107,		.2	8,6	.172

Airborne DATE 25 June 1973 Power Amplifier

PAGE 1 OF 3 DRAWING NO. 377255, POWER AMPLIFIER

TOTAL FAILURE RATE .052945 XI

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FUNCTIONAL BLOCK

TEMP.

A VESS	S KNAL	AN AL Y SIS												
'W.8 .				32			0		1	3.	3			1
SWAN PART	45	JOHN'S JAUNTA	TAKA NUMBER	Specifical Cal	Sept.	01	1313WAR		NSOS 3 IA	NITARISM.	SS3WI	0		10300
Inductor	71	Ferroxcube	VK200-26/4B	2174/7.7-0	\L	8	*	- 1		0	1	y	- 1	2
	1.29	Cin Flac		6-101/2/2-	2					19		.2	8.8	.172
		+		6-/*//V/17	70					101		1.2	8.6	.172
	130	Cin. Elec.		2174/7-7-9	70					107		,		1_
	5	Cin, Elec,		217A/7.7-9	70					3		Į,	d d	
	133	Cin Elec.		217A/7,7-9	70					3 5		,	9	77
Transformer	7	Cin, Elec.		217A/7.7-9	70					٤		7	9 8	7
	7.7	Cin. Elec.		217A/7.7-9	7,0					3 5		7,	9	7
	Ţ3	Cin. Elec.		287157.7-9	70					3 2		,	9 :	7
Diode Si	GR1		1N4148	2174/7.4-11	457	A	100	20	20	100	,	7:	e] ;	2.
	CR5		1N4148	217A/7.4-11	.457	1	100	5	2	3 5	,	1/5.	225	1295
Hybrid	A1	Cin, Elec.	377686	USAECOM	2,				3	7 3	7.	.371	3.5	1295
	A2	Cin. Flec.	377687		3		1			101		5013	'	0501
1			160775	USAECOM	70					107		2.460	1	.2460
161321804	3	Microdot	141-1005-0001	RADC 11/191	2					102		.036	5	8100
	72	Amp	85930-4 20 pts	RADC 11/191	20					10%		.00688		0003
	2	Microdot		RADC 11/191	2					107.		.036	1	8 (00
	72		25.00	RADC 11/191	20	_				1007		.00412		00200
Kesistor	R6			169A/301.2	2	音	250	0	10	10%	6.1	0002	1	0007
			RCR07 JS	199A/301.2	70	音	250	0	01	10%	٠. د.	0005	2	.0002
	2 2		RCR07G122JS	1994/301.2	70	3	250	0	10	10%	1,>	.0002	10	.01102
	Ky I		RCR0764\$25S	199A/301.2	20	Mu	250	0	10	10%	< · 1	0005	2	9002
													1	

TOTAL FAILURE RATE . 2021954 X10-5 DEGREES CENTIGRADE

DRAWING NO. 377255. POWER AMPLIFIED

Airborne

Power Amplifier

FUNCTIONAL BLOCK PAGE 2 OF

DATE 25 June 1973

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, 12 ESS	S ANAL	AN AL Y S I S												
'W.			436	3 TO VO		40	4313	1	SCENT	SNITA	320	1 0		3 2 20
MAN WALL	45	SPAN SPANS	Show Man	JAAN JAAN	•	S. Constant	MAKA		340	W. NO	3972	184	. \	30%
Resistor	RIO		RCR07G103JS	199A/301.2		m.V	250	٥	43	10%	A.1	.0002	2	0003
	RII		RCR07G513JS	1994/301.2	7.0	mW	250	0	~	10%	7.7	0000	101	3000
	R12		RCR07G513JS	199A/301.2	7.0	Man	250	0	2	10%	<.1 <.1	2000	10	.0002
Inductor	133	Ciu, Elec.		217A/7,7-9	76					10%		.2	8.5	172
	134	Delevan	1025-32	217A/7.7-9	70					10%		.2	8.6	.172
	135		1025-32	2174/7.7-9	70					10%		.2	8.6	,172
	137	•	1025-32	2174/7,7-9	70					107		.2	8.6	.172
SINHN Translator	01		JAN2N2222A	217A/7,4-13	.257	ED.	200	0	,1		ح,1	.227	l	.168
Hybrid	A3_	Cin. Elec.	377688	2175	70							.5324	•	.0532
Connector	25	Microdot	141-1005-0001	RADC 11/191	70					10%		980	.5	.0018
	<b>P6</b>	Microdot	141-1005-0001	RADC 11/191	70					10%		980°	.5	.0318
	P7	Selectro	51-751-0000-2	RADC 11/191	70					10%		•036	.5	.0018
	P8	Selectro	51-751-0000-2	RADC 11/191	70					107.		•036	5,	.0018
Resistor	R13		RCR07JS	199A/301.2	2/	7	250	0	<b>4</b> 1	10%	1.>	.0002	10	. 0002
	R14		RCR07JS	199A/301.2	70	ME	250	0	10	107	<.1	.0002	10	0005
,	R15		RCR07JS	1994/301.2	70	TAME:	250	0	10	.10%	1.>	.000	10	.0002
Relay	Κ,		GB-831C-SE	217A/7.10-5	70					100%		301	50	15.05
	<u>Κ</u> 8		GB-831C-SE	217A/7.10-9	70		-			100%		.018	50	6.
	K9		GB-831C-SE	217A/7.10-5	70					10%		.301	50	1.505
														-

TOTAL FAILURE RATE 1.837264 X10-5 DESREES CENTIGRADE 377255. Power Ampliffer DRAWING NO.

FUNCTIONAL BLOCK Power Amplifier Airborne

25 June 1973

DATE

TEMP.

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	'W.8.				370		40	43		INS	2N,	320.		1	*
"QI	JMN N 1680	TORMUS	SON WASH	TO NOT	APPLICA SPEC.	S. Caro.	AAAAA	SAPANET OSTAN		1053170	TANSO	223A12 223A12	0, 13	. `	200 4 4
	Capacitor	CJ		Y104A-20	217A/7.6-81	70	volts	50	~	10	100%	\	0072		0072
		23		Y\$03A-20	217A/7.6-81	7.0	volts	20	2	01	1001	5.	0072		007.7
1		C3		B155A-05	217A/7.6-81	20	volts	15	10	10	1007	.75	750		03%
		3		B155A-05	217A/7.6-81	70	volts	1.5	10	10	2001	.75	034		034
$\top$		3		Y154A-05	2174/7.6-81	70	voite	20	10	10	7.001	s.	.0072	٠	.0072
1	Resistor	R1		RCROS JS	1994/301,2	70	· <u>a</u>	125	<1	< 1		v	.0002	10	.002
		R2	٠	RCRO5 JS	1994/301.2	70	音	125	c 1	<b>1</b>	1002	2,2	.0002	10	005
$\dagger$	Inductor	5	Lenox Fugle	NR-22	217A/7.7-9	70					100%		.2	8.6	1.72
_		97	Lenox Fugle	NR-22	217A/7.7-9	70					1007		.2	8.6	1.72
+		77	Lenox Fugle	NR-3.9	217A/7.7-9	70					100%		.2	8.6	1.72
+		87	Lenox Fugie	NR-12	217A/7.7-9	2					1007		.2	8.6	1.72
+		67	Lenox Fugle	WR-22	217A/7.7-9	20					100%		•2	8.6	1.72
+		L10	Lenox Fugle	NR-10	217A/7.7-9	70					107.		. 2*	8.6	.172
+		111	Lenox Fugle	NR-3.3	217A/7.7-9	20					107	-	.2	8.6	.172
-	Transformer	17	Cin, Elec.	377354	217A/7.7-9	70					100%		.2		2
+		17	Cin. Elec.	377355	217A/7.7-9	70					1007		.2	10	2
+		<b>T</b> 3	Cin. Elec.	377353	217A/7.7-9	20					1007	_	•2	10	2
1		T4	Cin. Elec.	377355	217A/7.7-9	70					1007		.2	10	2
+		35	Cin. Elec.	377352	217A/7.7-9	70					1007		•2	10	2
$\dashv$		Te I	Cin. Elec.	377355	217A/7.7-9	70					1002		.2	10	2

TOTAL FAILURE RATE 2.10376 X10-5

DEGREES CENTIGRADE

PAGE 1 OF 4 DRAWING NO. 377350, Synth/RF Modulator

RF Modulator Airborne

FUNCTIONAL BLOCK

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DATE 25 June 1973

	(12 ress	S ANALYS!	7515												
	.w.8				3	1				1	2	3			
* MI	3mn	"ALS	JOSHUS JOSHUS	TUVA	Japl I CABI	\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 A3.	A313MAPA		N3353170	NITAG390	20 TO TO VE	0,13		10 30 H N
	Transformer	7.7	Cin. Elec.	377356	217A/7.7-9	$\checkmark$	*	4	1		103		,	1 =	
	Hybrid	HY2	Cin, Elec,	377677	CSAECOM	70					100		0.088¢	2	75 8 15 6
		HY4	Cin. Elec.	377675	PAECOM	7.0					337		4061		1340
		HX5	Cin. Elec.	377675	USAECOM	70					337		4061		1340
		нүб	Cin. Elec.	377675	T.SAECOM	70					337.		4061		1340
		HY7	Cin. Elec.	377675	USAECOM	70					1001		5216	,	5216
	Capacitor	C15		Y474A-20	217A/7.6-81	7.0	volts	01	5	ري د	1007	.5	0072		00.72
		C16		CKR05BX162KR	198B/1001.2	70	volts	200	S	2	1007	v	000		0625
		C17		CKR05BX102KR	198B/1001.2	70	volts	200	5	5	100%	۷.1	5000	וי	0025
		618		Y474A-20	2174/7,6-81	70	volts	10	5	5	33%		.0072	,	9024
		C19		Y474A-20	217A/7.6-81	70	volts	10	5	5	33%	.5	.0072		C024
		C20		Y474A-20	217A/7.6-81	70	volts	10	5	5	33%	5.	.0072		0024
	Resistor	R3		RCRO5 JS	199A/301.2	20	taki	125	<.1	< 1	1007	v.	0005	1.0	000
		87		RCR05102JS	199A/301.2	70	.AE	125	< 1	77	100%	4.1	0002	Ξ	00.2
		88		RCR05102JS	1994/301.2	2	골	125	<1	< 1	1005	۲.٦	.0002	10	002
,		83		RCR05103JS	1994/301.2	70	: <u>*</u>	125	< 1	د <sub>1</sub>	1000	<.1	.0002	10	7.30
		R10		RCR05103JS	199A/3C1.2	70	音	125	د ۱	د 1	100%	د,1	,0002	1:0	700
		RII		RCR05103JS	1994/301.2	2	音	125	77	د ۱	100%	2.1	0002	10	200
		R12		ECR05102JS	1994/301,2	70	ĭ <u>ĕ</u>	125	. 3	4	1001	< .1	.0002	10	700.
		813		RCR05102JS	199A/301,2	70	Mar.	125	4	7	100%	2.1	0005	10	500

DEGREES CENTIGRADE TOTAL FAILURE RATE 1.11474

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FUNCTIONAL BLOCK DRAWING NO. PAGE 2 OF

Afrborne

RF Modulator

25 June 1973

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JANA TONA	TOSKUS	JOS WANUE A	MANSER	APPLICABL SPECIA	10 . case; 1	N D'A	131 AMP AS		VI) SZ J I TO	AIT AR 340 AIV	20 4 7 V	0, 14	. \	4.307
esistor	R16		RCR05104JS	1994/301.2	70	A	125	~	7,	100	\_\V			
Int, Circuit	101	Plessey	376152	RADC 11/413	70					100		2007		202
Hybr14	HXB		377679	PSAF: OM	7.0					100%		4212		4217
	818		RCRO5 JS	1994/301.2	7.0	Ma	125	17	7.1	1007	7	0007	10	000
	BIB		RCRO5 JS	1998/301.2	7.0	Ma.	125	12	12	1007		0002	10	002
Connector	Pl	Апр	85930-4 20p	RADC 11/191	70					1007		00688	.5	0.0344
	24	Merodet	141-1005-0001	RADC 11/191	70					1007		036	5,	018
	ผ	Microdot		RADC 11/191	70					2001		036	٤٠	8 5
Transformer	7.8		377357	217A/7.7-9	7.0					107		2	2	
Diode, Var.	CR1		DKV6523B	CIN, Elec.	70					1007		7.2		7.2
	CR2		DEV6923B	Cin. Elec.	70					1007		7,		7.2
	CR3		DKV6524B	Cin. Eiec.	70					1007		7.2	,	7.2
	CR4		DKV6524B	Cin. Elec.	70					100%		72	,	
	CRS		DKV6524B	Cin. Elec.	70					100%		1.		17.
	982		DKV6524B	Cin, Elec,	70					1007		7.2	,	<b> </b>  }}
	CR7		DKV6524B	Cfn. Elec.	20					100%		7.2		7.2
	CR8		DKV65~4B	Cin. Elec.	70					1007		7.2	,	7.2
	CR9		DKV5524B	Cin. Elec.	70					100%		7.2		~; [ ]
	CRIO		DKV6524B	Cin. Elec.	70					100%		72	ı	7.2
	CR11		DKV6524B	Cin. Elec.	70			•		1007		7.2	•	

DATE 25 June 1973 FUNCTIONAL BLOCK TEMP.

RF Modulator Airborne PAGE 3 OF

DRAWING NO. 377350. Synth/RF Modulator

X10-5 TOTAL FAILURE RATE . 979364

DEGREES CENTIGRADE

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301 A Paster 37 14 BANTINS OITM SSAVIS 3DW WA 100% SNIT PHE BOO ANGOS SIND OBLE ARTIMARA A AN . CHIER 2 JAPPLICABLE Cin, Elec. & 38MIN TAVA DKV6524B ABARI MANUFAC AR AL YSIS TOSMUS. CR12 . RESS 3mn Blode, Ver 4414 'W. 8 . " " " (Re)

TOTAL FAILURE RATE . 072 X10-5	ATDEGREES CENTIGRADE

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Airborne

Modulator

RF

BLOCK

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PAGE 4

Synth/RF Modulator

DRAWING NO.

June 1973

	, 12 s . ESS	SAKALYSIS	SISA	,											
	'W.			*	3784		*8	431	1	LAGO	ONIJ	3200	1 0	1	40.54
rai	in.	***	SPACE STANK	JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOHN	Jaar Sago	diej.	W. W. W.	O31 AA		53170	A 340	710	, b.3	. `	*307 ****
	Capacitor	c2	Comp. Inc.	Y104A-20	217A/7.6-81	7.0	volts	20	10	10	100%	3.	,0072		.0072
		83		T104A-20	217A/7.6-81	70	volte	20	15	15	100%	.75	.034	•	.034
		ప		Y104A-20	2174/7.6-81	70	volte	20	15	15	1007	.75	.034	•	.034
		C10		Y104A-20	2174/7.6-81	70	volte	70	10	10	1002	.5	.0072		.0072
	Resistor	724		RCR05G	199A/301.2	70	Ŋū	125	2	2	1007	<b>∠</b> ,1	0005	10	005
		38.5		RCR05G101JS	199A/301.2	70	λE	125	20	10	100%	<,1	,0002	10	č101)*
		R6		RCR05G	1994/301.2	70	TOY.	125	1	1	100	<.1.	2000	10	(.02
		-117		RCR056104JS	1998/301.2	70	je E	125	<b>1</b> ×	< 1	1000	4.1	.0002	10	(30)
	Inductor	1.2	Lenox Fugle	NR22	217A/7.7-9	70	,				1002	•	.2	8.6	1.72
_		13	Lenox Fugle	NR22	217A/7.7-9	70					100%	•	.2	8.6	1.72
	Int, Circuit	101	CTS Knighte	376153 TCX0	RADC 11/413	70			·		1007		9656	•	9696*
1		152		Ref. 44 N	USAECOM	70					100%		3,7	•	3.7
						70									
1	Besistor	R20		RCR05 JS	199A/301.2	70	•	125	1	1	1007	2.1	.0002	10	(101)
	Capacitor	C11		Y104A-20	217A/7.6-81	20	volts	20	10	10	100%	.5	.0065	•	.0072
		C12		G106A-20	217A/7.6-81	70	volts	15	5.6	5.6	1001	.37	.0035	c	.0035
		C13	•	S685A-20	2174/7.6-91	70	volts	35	70	20	1004	.57	.0127	•	.0127
		513		X104A-20	217A/7.6-81	70	volte	26	15	15	1002	. 57.	<b>7</b> 80°		.034
		3		Y104A-20	217A/1.6-81	70	volts	20	10	10	1007		.0072	٠	.0072
		C22		¥104A-20	2174/7.6-81	70	volts	20	15	15	1007	.75	.034		.034

DEGREES CENTIGRADE TOTAL FAILURE RATE . 82966 Synthesizer Airborne DATE 25 June 1973

DRAWING NO. 377350, Synth/RF Modulator

FUNCTIONAL BLOCK

cy (	RESS ANA	ANALYSIS												
B.W.		}		3	i				1	9	3			
SWN 1888		JOHN'S JOHN'S	19kg 19kg	SPEC, SPECABL	So State	io or	A3T3MARIED		N3OS3IN	DY AL	SS3W	0.		10200 H
	+			5 2	ノ	الم	**	. 1	o	8	2	4	i	22
Capacitor	C73		Y103A-20	217A/7.6-81	70	volte	20	10	10	1000	5	.0072	,	.0072
Resistor	RIG		RCR05G104JS	1994/301.2	70	aw	125	< 1	< 1		П	.0002	2	000
	R15	15	RCR05G104JS	199A/301,2	70	mW	125	<1>	4.1		-	0000	S	003
Inductor	3	Lenox Fugle	NR22	217A/7.7-9	70					1000		^	1 4	1 72
	1.5	Lenox Fugle	NR22	217A/7.7-9	70					1001		7	ع ا	
Hybrid	HY!	Cin, Elec,	377678	USAECOM	70					1001		3 757		'
Capacitor	C24	Comp. Inc.	S156R-20	217A/7.6-81	70	volts	20	27	91	1001	6	0072		500
	C25	Comp. Inc.	S156R-20	217A/7.6-81	70	volts	20	10	2	1001	T	0072		.0072
	C26	Comp. Inc.	L336R-20	217A/7.6-81	7.0	volts	20	10	10	1001	2.	.0072	1.	.0072
	227	Comp. Inc.	L336R-20	217A/7.6-8i	70	volts	20	10	10	1003	2,	2700		0072
	C28	Comp. Inc.	L336R-20	217A/7.6-81	70	volts	20	10	10	100%	<b>†</b>	.0072		.0072
	C29	Comp. Inc.	L335R-20	217A/7.6-81	70	volts	20	10	10	1007	.5	.0072	•	.0072
	C30	<del></del> -	S226R-20	217A/7.6-81	70	volts	20	10	10	100%	2,	.0072		.0072
	C31	Comp. Inc.	S226R-20	217A/7.6-81	70	volts	20	10	10	1007	5.	0072	,	0072
	Te	Cin. Elec.	55017 -AS	217A/7.7-9	70					100%	<del> </del>	7	8.6	.72
	17	Cin, Elec.	CF101-01	217A/7.7-9	70					100		,	4	1 72
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DATE 25 June 1973 TEMP.

Airborne Synthesizer FUNCTIONAL BLOCK

DRAWING NO. 377350, Synth/RF Modulator

TOTAL FAILURE RATE 1.07061

DEGREES CENTIGRADE

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	,	SALLURA SALLURA	1601	-	255 3	12	NT)	ı	1	-	7							-	-	<u> </u> _ 	
	32	223412	√_	ļ	V																
	N.	1443	1	┼	<del> </del> -	1007	100%	100%	100%	100%	1007	100%	_		-					_	
	1N	SUS 3/10	5	10 10	V													_		-	
		GRAN	+-	20	7													_	<u> </u>	-	
	A.3	13mg y	-	volte 2										-							-
	14	27 - CHR 13	70	70	30	70	70	70	70	70	70	70	-	 		-			-		
	378	APPLICAL CAL	217A/7.6-81	2178/7,6-81	217A/7.4-11	RADC 11/191	LSAECOM	217A/7,12-3	2176/7.12-2	217A/7.12-3	217A/7.12-3	217A/7.12-3									
		1919 AZBANA	U103R-10	U164R-10	JAN1N4148	MCDD1-25P6A1	377691	376048	376048	376048	376048	376648									
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S AMALYS:		TOSMUS	15	23	CR1	14	13	153	D52	053	D54	055									
ESS ESS	W.O.	THE REST	Capacitor		Diode Si	Connector	Hybrid	Pin Light													
		Pai															,				

Afrborne DATE 25 June 1973 Frequency Control FUNCTIONAL BLOCK TEMP.

377100, Chassis Assembly DRAWING NO.

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DEGREES CENTIGRADE TOTAL FAILURE RATE 5.125245

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	TANA	PORMIS	A SUNDING TOOM	A SEMAN WASE	Speel Col	877. BBZ	SWAN	QZI VY	253/10	VA3-90	41.70				201
Bantater	Ver Ver	Bi	Allen Bradley	Allen BradlewGS1T048F103AA	2174/7,5-21	70	wette	0.5	17	1.	1001	,2	17	50	5.0
Section 1		<del></del>		376627-1	RADC 11/217	70					100%		800	•	800
		82		376027-2	RADC 11/217	70					100%		0768	•	0768
		S3		376029	RADC 11/217	70					.5%		168	•	78000
		34	Grevht11	30-2518	RADC 11/217	70					1001		.024	,	.024
210000	1040		Microdot	142-1002-0001	RADC 11-191	7.0					100%		.036	5.	.018
310000	1724		Werodot	142-1002-0001	RADC 11-191	20					197.		.036	53	.0018
			Microdot	142-1002-0001	RADC 11-191	70					107.		.036	.5	.0018
			Microdot	142-1902-0001	RADC 11-191	70					195		.036	5.	.0018
			Merodot	142-1002-0001	RADC 11-191	70					100%	-	036	.5	.018
			Microdat	142-1002-0001		7.0					206	T.	036	5.	,0138
			Microdot	142-1002-0001	RADC 11-191	70					107.		036	.5	.0018
			Microdot	142-1002-0001	RADC 11-191	7.0					907.		.036	5.	.0138
		_	Microdot	142-1002-0001	RADC 11-191	70					,006		.036	5.	.0138
		_	Microdot	142-1002-0001	II	70					107.		.036	ñ.	.0018
-			Merchan	142-1002-0001	RADC 11-191	20					107		.036	.5	.0018
			Merador	142-1002-0001	RADC 11-191	70					10.		.036	٠5	.0018
		_		377102 33B		70					1007		.0109	.5	.0054
			I.T.T. Cen.	ES-C-211489 5p	RADC II-191	70					100%		.00633	.5	.00316
-				377141 6p	RADC 11-191	0/					100%		.00344	.5	.0017

TOTAL FAILURE RATE SE0191

DEGREES CENTIGRADE

DRAWING NO. PAGE

Airborne

Chassis Assembly

25 June 1973

DATE

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FUNCTIONAL BLOCK

TEMP.

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E a se	2	AU NOW	A SA SA SA SA SA SA SA SA SA SA SA SA SA	305	Town I		DE NO PE		3110	4 76 (4300	3412	X.	. 🔪	, CO.
Connector			110-012/11	200	<b>V</b>			- 1				/		2
See Levis			00-1140	KALX 11-191	70					100%	•	.036	5	.018
053 CMC	2		376029	RADC 11/217	70					. 5%	- 1	168		000
	93		51KX23029-3AE	RADC_11/217	70					10.00		1020	ī	
Fuze		Little Fuse	277-004	217A/7.12-3	70					200	1	#8/2	7	58/A
Diode			18914	217A/7.4-11	1	¥	75	C	1,		1.		_	
Registor			RC805C1037c	1001/201 2	4			,		-		255	3.5	8925
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TOTAL FAILURE RATE 109174 X10-

FUNCTIONAL ELOCK Chassis Assembly Airborne PAGE 2 0F 2

25 June 1973

DATE

TEMP.

DRAWING NO. 377100, Chassis Assembly

		367716	1	043	<b>3</b> 5	5 5	2 2		+-	-	+	2.6554	2	0	6	ت	1.6898	+	-	+	$\dashv$		-	+
		55.4	4	•1	<u>-i-</u>	<u> </u>		•	7 "	4	-5	7-6	048 51	.1 ,620	1 .009	1	T		+	+				$\vdash$
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Í	41/4	33170		n 4	n	, .	7						27	.25	.044	1.							-	
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	× 78	1) Jags	217A/7.6-81	2174/7.6-81	217A/7,6-81	217A/7.6-81	217A/7.6-81	217A/7.7-9	2174/2,7-9	217A/7.7-9	DANC 11//1		11-6-//4/17	21/4/7,4-11	217A/7.5-15	217A/7.5-15	1/413			 				
			217A	2374	217A/	217A/	217A/	217A/	2171	2174/	24.4		74/17	77.17	2174/	2171/	RADC 11/413							
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		TAKA MAN	L336R20	F305R-20	F305R-20	F305R-20	M106R-20	556	377553-1	377553-2		603	3	202	RW81UZROOF	RW8 LUIR SOF	556							
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4 & 5 Volt Regulators Airborne 25 June 1973

DRAWING NO. 377550, POWER SUPPLY

FUNCTIONAL BLOCK

DEGREES CENTIGRADE TOTAL FAILURE RATE 2, 50722

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Capaciter	5		CKR06BX104KR	1988/1001.2	70 /	volte	100	°`	7,6	100%	7,6	200	ł	
	23		K39663/01-237		7.0	volts	50	2,4	2,4	100		•1		2000
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	63		F105R-20	217A/7.6-81	Γ-	volte	20	13	7 2	1007	7,5	03%		7/00-
	C14		F105R-20	217A/7.6-81		volts	20	15	15	1007		034		2
	C15		L106R-20	217A/7 <sub>4</sub> 6-81	7.0	volte	20	25	15	1007	75	750		720
	C16		L106R-20	217A/7.6-81	70	volts	20	15	15	100%	.75	936		720
	C17		M155R-20	2174/~6-81	70 v	volts	35	20		1007.	.57	0127		0127
	C18		CKR05BX104KR	1988/1001.2	70 v	volts	50	42	42	1007	78	0600	2	570
	C19		CKR05BX104KR	2,1001/38	70 v	volts	50	42	4.2	1007	778	0000		2 2
Inductor	3	Cin. Elec.	377555-3	217A/7.7.9	70					100.		,	2	
	1.5	Cin. Flec.	377555-4	217A/7.7-9	70					100%		,	101	,
	97	Cin. Elec.	377555-4	2174/7.7-9	7.0					1007			2	,
	17	Cin. Elec.	377555-4	217A/7.7-9	70					100%		,	2	,
	87	Cip. Elec.	377555-5	217A/7.7.9	70					100%			2	,
	7	Cin. Elec.	377555-1	2174/7.7-9	70					1007		~	10	,
Transformer	7.4	Cin. Elec.	377554	217A/7.7-5	70					1007		2	2	2
Litoda Si	CR6		5R0	2174/7.4-11	.338 m	谙	500	34	34	100%	0.3	282	3.5	987
	CR7		SRO	2174/7.4-11	. 336mW	3	200	34	34	100%		.282	3.5	987

Airborne 15 Volt Regulator & DC/DC Converter DATE 25 June 1973 FUNCTIONAL BLOCK PAGE 1 OF 2 TEMP. -165-

DESREES CENTIGRADE TOTAL FAILURE RATE 1.62361

DRAWING NO. 377550, POWER SUPPLY

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ESS AHALYSIS	TOUR SUN SUN SUN SUN SUN SUN SUN SUN SUN SUN	TA SO	Diede St. CRB	CRS	CR12	CR13	CR14		MSI Z4	Connector P1	Diode CR10	CR11	CR15	Relev K1 T					

TOTAL FAILURE RATE 2.655764 X10-5 DEGREES CENTIGRADE 15 Volt Regulator & DC/DC Converter Airborne DATE 25 June 1973

DRAWING NO. 377550, POWER SUDDLY

PAGE 2 OF

FUNCTIONAL BLOCK -166-

TEMP.

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Switch	25	Greyhtli	30-1288	RAT	V	W T		- 1		b		<b>y</b>		3
	S	Greekly	50.00-35-01-3	BADCTT /217	,					1001		7		7
Besision	18		RVENAVSI - 2014	2124/1 5-21	70	į	3			1001		77		77
	253		RUKSKRYSI - 1012	aran agl	3.0	i	563		9 9	1002	7		3	4
Cerestar	4	Bendix	21-268-218232	24.2.11.191	20					100		1 3	3	ا
	- B3	Dage	7160-1	BADCUT/191	70					200		#/C	7	0637
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	52	Costs 1 Dyn	108	RADCII/191	20,					2307		450	4	श्रहे.
	92	Sealactro	51-724-0000	RADKIT /191	70					100		*	4	000
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	î î a		3421-900014P	RADCI 1/191	0,	-	-		-	2001	1	6010	1	7500
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TOTAL FAILURE RATE 1.123595 X10-5 DEGREES CENTIGRADE

Chassis PAGE TOF

25 June 1973

DATE

DRAWING NG. \_\_Airbarne Applique.

-167-

FUNCTIONAL BLOCK

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	Capacitor					٧			ł						
		C402		CKR05BX103KR	1988/1001,2	70	Colto	100	.02	.02	1007.	7.7	0005		0025
		C403		CKRG5BX103KR	198B/1001.2	7.0	Valee	100	400	7	1007	7.7	0005		0025
		C404		CKR05BX103KR	198B/1001.2	70	Volts	100	70.	.02	1007	7.7	5000		0025
		C405		CK05BX103KR	1938/1051.2	7.0	VELEE	.100°	.02	.02	1007	-	0005		.0025
		C406		CKR05BX104KR	198B/1001.2	70	Volte		2	2	1002		0005		0025
		C407		CKR05BX104KR	198B/1601.2	7.0	Volts	5.0	2	2	1002	7	5000		0025
		C408	Comp Inc.	L156R-20	217A/7,6-81	7.0	Volts	15	0	2	102	~ .13	0013		00013
		5070		CKRG5BX103KE	198B/1001.2	7.0	Volte	100	0	90*	102	7	0005	5	00025
		C410		CKR05BX103KR	198B/1001,2	70	Volts	100	0	90	102	-	0005	5	00025
		C411		CKR05BX103KR	1989/1001.2	70	Volts	100	ပ	90	107	- /	0005	5	00025
		C412		CKR05BX103KR	198B/1001,2	20	Volts	100	Ü	017	10%		2000	5	20025
		C413	JFD	DV510H	217A/7,6-33	20	Volts	1007	0	2	107	٧	6		100
		C414		1501-36-101	217A/7,6-25	7.0	Voits	3005.	ű	2	10%	-	000	2	6
		C415		CKR05BX102KR 1	1988/1001,2	75	Volts	200	C	,2	10%	1. 7	2000	S	00025
,		C416		CKR05BX102KR 1	198B/1001,2	20	Volts	200	0	.2	10%		0005	2	00025
		C41 <sup>-</sup>		CKR05BX104KR	194B/1001.2	20	Volts	50	0	2	10%	-	0005	2	00025
		C418		CKR05BX104KR 1	1988/1001.2	70.	Valts	50	0	2	107	7	0005	~	00025
		C419		CKR056X103KR 1	1988/1001,2	70	Volts	100	0	16	1007	-	0005	5	0025
	Resistor	R401	•	RCK05G102.1S	1994/301,2		2	125	c	, ,	•		7,000		200
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25 June 1973 DATE

Homing Receiver FUNCTIONAL BLOCK

PAGE 1 OF 6

Airhorne Appilque, 3-6600 DRAWING NO. -168--

.002403 X10-5 TOTAL FAILURE RATE

DEGREES CENTIGRADE

	JESS ANALYSIS												
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* 0 2	14	NA WAR	305	1	No yo	Novo		3170	4300	4 x 3 x 12	<b>\</b>		30,
	R402	RCR03G101JS	1994/301.2	70	1	1 2 2	-	] 5	7			1	
	R403	RCR056470JS	1	ç	2	7-	$\top$	1 -	7007	-	.00024	0	0024
	R404	RCR05G101JS	1994/301 2	10		_	7		1001	-:	90024	2	0024
	R405	DCBOSC30310	2027077	?	N I I	173	2	21	1001		00024	91	0024
	707 d	7	-	6/	1	125	4	7	2		,00024	10	00024
	2074	KCKUS JS	1994/301,2	0,	3	125	5	5	Ter.	7.	00024	OI	00024
	N&UO	RCR05C104JS	199A/301.2	70	3	125	10	01	100%	-	00024	2	002/
	R409	RCR05G102JS	199A/301.2	70	ě	125	25	25	1001	7	7000	9	3 8
	R410	RCR05G222JS	1994/301.2	70		125	0	63	600	7	700	, ,	3 8
	R411	RCR05G102JS	1994/391,2	, ,		30.	:		+	7		\$	0004
	R412	RCR05643218	1004/201 2	1		1	1	7	1002	7	7000	10	700
	221.5		7.106/92.5	9	38	527	9	4	107	-1	00024	10	00024
	7/1/0	ACRUS JS	199A/301.2	42	7	135	9	9	102	.1	2000	10	00024
	97.10	KCR05G513JS	199A/301.2	70	7	125	q	-	107		0000	<del>                                     </del>	0000
	N410	RCR05G204JS	199A/301.2	70	78	125	q	-	107	-	0000	c	7,000
	2410	RCR05G682JS	199A/301.2	97	3	125	٥	-	107		0000	, ,	7000
	D/10	RCR05G103JS	199A/301.2	20	à	125	0	-	102	-	0007		7000
	C - 3 C	#F#d%:97236	199A/301.2	70 LE	2	125	a	4	107		0000	-	7000
	מקוב	RCR05G273JB	199A/301.2	70 E	N.	125		-	1003	-	0000	<del></del>	2000
	R420	RCR05G392JS	199A/301.2	70	740	125	-	<del> </del>		+-	17000	<del></del>	770
	R421	RCR05G392JS	199A/301.2	70	2	125	<del> </del>	╁╴			00024	ħ	7700
				$\vdash$			+	+	1007	1	.00024	2	0024
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TEMP. DATE 25 June1973

FUNCTIONAL BLOCK Homfing Receiver

DRAWING NO. Airberne Applique. 7.6600

TOTAL FAILURE RATE .. 003236 X10

NT\_\_\_\_\_DEGREES CENTIGRADE

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是一种,我们是一个人,我们是一个人,他们是一个人,他们是一个人,他们是一个人,他们是一个人,他们们是一个人,他们们们是一个人,他们们们们们们们们们们们们们们们们的一个人,也是一个人,他们们们们们们们

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`			436	(c)		8	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		لاي	N/18	<u>ر</u> کرن	0		\\ \\ \\
WAN AND AND AND AND AND AND AND AND AND A	25	Now.	SIAN WANT	JAS JAS	The state of the s		QI VY		340	A JOO	3418	1	. `	°201
	R422		RCR05G5123S	1994/301.2	2	3	125	-	5	13	<u> </u> -		L	
	R424		RCROSS = JS	1994/301.2	7.0	i i	125	5	~	1007	4 1	000	ـــــــ	.0024
	R425		RCR05G2041S	1994/301.2	25	ě	125	17	-	1007	-	000	L	700
	R426		RCR05C473JS	1994/301.2	70	126	125	< 1	<b>4</b> 1	1007	1	0000		7000
	R427		RCR05G124JS	1994/301.2	70	7.0	221	< 1	< 1	1007	• •	000	L	0024
	R428		RCR03G2741S	199A/301.2	70	N.	125	<.1	< 1	1007		000	L	0024
	8429		RCR05 1S	199A/301_2	70	Ē	125	7	4	1007	- 7	000	] ,	.0024
	R430		RCRG5G182JS	1994/301.2	70	TEN	125	2	2	1007	4.1	6002		9024
	15431		RCR05G2221S	1998/301.2	20	ž	125	-	1	1007	4.1	0007	10	.0024
	R432		RCE0564721S	1994/301.2	70	N.	125	o	1	107	4ء	.0002	01 3	.00024
	8433		RCR05G4131S	193A/301.2	70	ě	125	9	1	107	4.1	0000	10	000024
	R434		RCR05G163JS	1994/301.2	70	ě	125	0	1	107	<.1 <.1	8000	10	00024
	R435		RCR05G823JS	1994/301.2	70	200	125	0	3	10%	< ,1	0002	10	.0002
	R436		RCROSCI22IS	1994/301.2	70	ě	125	С	1	107	4,1	.0002	10	.0002
	R437		RCR05G202JS	199A/301.1	20	W	125	0	12	107	.1	,0002	10	.0002
,	R438		RCR05G202JS	1954/301,2	70	ě	125	0	12	107	.1	,0002	10	.0002
	R439		RCR05G\$23JS	199A/301.2	70	3	125	c	ری	107	د ،1	.0002	10	.0002
	R440		RCR05G622JS	199A/301.2	70	3	125	9	-	107	<.1	,0002	10	0007
	R441		RCR05G101JS	199A/301.2	70	3	125	0	22	50%	.2	*000	10	200
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DATE 25 June 1973

Homfinz Receiver FUNCTIONAL BLOCK

PAGE 3 OF -170-

DRAWING NO. \_\_\_\_AITHOTHE APPLIQUE. 1 6500

TOTAL FAILURE RATE . 00236

\_DEGREES CENTIGRADE

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R442		RCR05G331.1S	1994/301 2	1 1	,	) ::					•	- 1	
8443		RCR05G2221S	1994/303 2	┿		3 ::		4	700	7.5	7000	q	9700
8444		RCR05C1841S	1994/301.2	-	3	3 5	,	1.	1 50	1	2000	92	0024
Bins		RCR05G2221S	199A/3C. 2	-	7	128	c	,		1		101	.0012
877Z		RCR05G331.IS	1994/3/11, 2			125	2	2	100	7	2000	] 2	.0024
B447		RCR05G101 IS	1996/101.2	70	12	125	С	23	3	1	8	01	.0012
8778		RCR05C3327S	1994/301 2	70		125	٥	•	503	1	000	2	.0012
8649		RCR05G332JS	1994/301.2	20 "		125	a	ยา		•	000	101	.0012
8450		RCE05C2721S	1594/301.2	70		123	,	2		-	000	01	.0024
R451		RCE05G10215	1994/301.2	70	$\dashv$	125	D	7 7	167		000	10	.0024
1071	Lenox Fugle	NR10	217A/7.7-9	70					101		7		172
1402	Lenox Fugle	MR10	217A/7.7-9	70					202		2		86
1403	Lenox Fugie	NR10	217A/7.7-9	70					107		.2		172
1404	Lenox Fugle	NR10	2174/7.7-9	70	-				1001		2.		.72
L405	Lenox Fugle	NR10	217A/7.7-9	0.					1007		.2		.72
90 <del>7</del> 7	Lenox Fugle	NR10	217A/7.7-9	70					1007		2		?
1,407	Delevan	1025-68	217A/7.7-9	70 7	-				101		7.		
7401	CEC	376634	217A/7.7-9	70					107.		7		
	CEC	376633	217A/7.7-9	70					107.		2.	10	2
CR40		HP5082-3188	217A/7.4-11	. 37 m		50	2	2	1007	10.	304		0.55
	R/4.3           B/4.6           B/4.6           B/4.6           B/4.6           B/4.6           B/4.6           B/4.6           I/4.0 </td <td>Lenox Lenox Lenox Lenox CEC CEC</td> <td>Lenox Fugle Lenox Fugle Lenox Fugle Lenox Fugle Lenox Fugle Lenox Fugle Nelevan CEC 3</td> <td>  RCRO5G331JS    </td> <td>  RCROSG331JS   1994/301.2 70    </td> <td>  RCROSC121IS   199A/301.2 70 max   RCROSC12LIS   199A/301.2 70 max   RCROSC12LIS   199A/301.2 70 max   RCROSC1311IS   199A/301.2 70 max   RCROSC1311IS   199A/301.2 70 max   RCROSC1312IS   199A/301.2 70 max   RCROSC1312IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   Lenox Fugle   NR10   217A/7.7-9 70   70     Lenox Fugle   NR10   217A/7.7-9 70   70     Lenox Fugle   NR10   217A/7.7-9 70   70     Lenox Fugle   NR10   217A/7.7-9 70   70     Lenox Fugle   NR10   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376644   217</td> <td>  RCROSC1215   199A/101.2   70 ms    </td> <td>  RCROSG131JS   199A/301.2   70 mg   125   12   12   13   13   13   13   13   13</td> <td>  RCROSG231JS   199A/301.2   70 mg   125   12   12   12   12   12   12   1</td> <td>  RCROSG331JS   199A/301.2   70 ms   125   12   1007     RCROSG2221S   199A/301.2   70 ms   125   0   2   507     RCROSG2221S   199A/301.2   70 ms   125   5   5   1007     RCROSG3131S   199A/301.2   70 ms   125   0   2   507     RCROSG3131S   199A/301.2   70 ms   125   0   2   507     RCROSG3132IS   199A/301.2   70 ms   125   0   2   507     RCROSG3132IS   199A/301.2   70 ms   125   0   5   507     RCROSG3132IS   199A/301.2   70 ms   125   0   5   507     Lenox Fugle   RR10   217A/7.7-9   70 ms   125   0   5   507     Lenox Fugle   RR10   217A/7.7-9   70 ms   125   0   5   1007     Lenox Fugle   RR10   217A/7.7-9   70   ms   125   0   2.1   107     Lenox Fugle   RR10   217A/7.7-9   70   ms   107     Lenox Fugle   RR10   217A/7.7-9   70   10</td> <td>  RCROSG231JS   199A/301.2 70 ms   125   12   1007 e.1     RCROSG22LIS   199A/301.2 70 ms   125   5   5   1007   2.1     RCROSG18LIS   199A/301.2 70 ms   125   5   5   1007   2.1     RCROSG13LIS   199A/301.2 70 ms   125   12   10   2   5   5   5   5   5   5   5   5   5</td> <td>  RCROSG231JS 1994/301.2 70 ms 125 12 1002 6.1    </td> <td>  RCROSG13115   199A/301.2   70 ms   125   12   1002 c.1   00020.1    </td>	Lenox Lenox Lenox Lenox CEC CEC	Lenox Fugle Lenox Fugle Lenox Fugle Lenox Fugle Lenox Fugle Lenox Fugle Nelevan CEC 3	RCRO5G331JS	RCROSG331JS   1994/301.2 70	RCROSC121IS   199A/301.2 70 max   RCROSC12LIS   199A/301.2 70 max   RCROSC12LIS   199A/301.2 70 max   RCROSC1311IS   199A/301.2 70 max   RCROSC1311IS   199A/301.2 70 max   RCROSC1312IS   199A/301.2 70 max   RCROSC1312IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   RCROSC132IS   199A/301.2 70 max   Lenox Fugle   NR10   217A/7.7-9 70   70     Lenox Fugle   NR10   217A/7.7-9 70   70     Lenox Fugle   NR10   217A/7.7-9 70   70     Lenox Fugle   NR10   217A/7.7-9 70   70     Lenox Fugle   NR10   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376634   217A/7.7-9 70   70     CEC   376644   217	RCROSC1215   199A/101.2   70 ms	RCROSG131JS   199A/301.2   70 mg   125   12   12   13   13   13   13   13   13	RCROSG231JS   199A/301.2   70 mg   125   12   12   12   12   12   12   1	RCROSG331JS   199A/301.2   70 ms   125   12   1007     RCROSG2221S   199A/301.2   70 ms   125   0   2   507     RCROSG2221S   199A/301.2   70 ms   125   5   5   1007     RCROSG3131S   199A/301.2   70 ms   125   0   2   507     RCROSG3131S   199A/301.2   70 ms   125   0   2   507     RCROSG3132IS   199A/301.2   70 ms   125   0   2   507     RCROSG3132IS   199A/301.2   70 ms   125   0   5   507     RCROSG3132IS   199A/301.2   70 ms   125   0   5   507     Lenox Fugle   RR10   217A/7.7-9   70 ms   125   0   5   507     Lenox Fugle   RR10   217A/7.7-9   70 ms   125   0   5   1007     Lenox Fugle   RR10   217A/7.7-9   70   ms   125   0   2.1   107     Lenox Fugle   RR10   217A/7.7-9   70   ms   107     Lenox Fugle   RR10   217A/7.7-9   70   10	RCROSG231JS   199A/301.2 70 ms   125   12   1007 e.1     RCROSG22LIS   199A/301.2 70 ms   125   5   5   1007   2.1     RCROSG18LIS   199A/301.2 70 ms   125   5   5   1007   2.1     RCROSG13LIS   199A/301.2 70 ms   125   12   10   2   5   5   5   5   5   5   5   5   5	RCROSG231JS 1994/301.2 70 ms 125 12 1002 6.1	RCROSG13115   199A/301.2   70 ms   125   12   1002 c.1   00020.1

TEMP. DATE 25 June 1973

FUNCTIONAL BLOCK Housing Receiver

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DRAWING NO. Airhorne Applique 176600

TOTAL FAILURE RATE . 801684 X10"

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TOTAL FAILURE RATE 2, 30944

DEGREES CENTIGRADE

DRAWING NO. Airborne Appilque 376600

DATE 25 June 1973

Homing Receiver

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FUNCTIONAL BLOCK PAGE 5 OF 6

# . 30<sub>1</sub> 169 See A. A. | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 ₹r FAILURE

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DATE 25 June 1973

FUNCTIONAL BLOCK Special Functions PAGE 1 OF 1

Afrbare Applique, 176630

DRAWING NO.

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TOTAL FAILURE RATE . 002-373 KIO

T\_\_\_\_DEGREES CENTIGRADE

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THE REPORT OF THE PARTY OF THE

DATE 25 June 1973

Special Functions FUNCTIONAL BLOCK PAGE OF

-175-

DRANING RO. A Traine Applique Train

TOTAL FAILURE RATE .745822

DEGREES CENTIGRADE

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	-	AMPLY SCA	217A/7.4-1	2174/7.4-13	2174/7.4-13	XODEYSD	HSAECON	\$+\$4.C+19-5	RADC11/191	RADC11/191	RADC11/191	RADCI1/191	EADC11/191	RADC11/191	217A/7.4-1							
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DEGREES CENTIGRADE Special Functions CATE FUNCTIONAL BLOCK PAGE 3 OF

Airborne Applique, 3,6600 DRAWING NO.

-176-

TOTAL FAILURE RATE .2 50124

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	Capacitor	C105	JFD	DV105H	217A/7.6-33	70	٧	100	0	.1	10	1-1	10.		5
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	Capacitor	2012		GOVERNOOF	\$ 988/1001.	7.0	Ą	200	0	1,	107	4.1	.0005	2	.0002
	Capacitor	C107		1501-36-101	2174/7.6-25	70	Λ	100	0	1.		1.>	.002	5	ij
	Capacitor	C109		CKR05BX102KR	1988/1001.2	R	V	2002	O	-	10%	۷,1	,0005	5	.0002
	Capacitor	0113		CKR05BX104KR	1988/1001.2	70	Λ	50	0	•1		4.1	0000	5	.0002
	Resistor	Rioi		RCR05G131JS	1998/301.2	70	12	125	0	52		417	<u> </u>	10	6
	Bestetor	R1u2		RCR056430JS	199A/301.2	70	3	125	0	1	1007	1.	<u> </u>	10	,0024
	Resistor	R103		RCR05Ci00JS	199A/301.2	70	TIES.	125	0	1	1007	.1	.0902	4 10	.0024
	Resistor	R10.		RCR050100JS	1994/301,2	20	7	125	0		1002	.1	.0002	10	.0024
	Resistor	B) 0.5		RCR05G100JS	199A/301.2	5	A.C.	125	0		100%	.1	.0002	10	,0024
	Resistor	R115		PCR056430JS	199A/301.2	7.0	Ž	125	ß	-,	1007	7.7	2000.	4 10	.0024
	Inductor	1101	Lenox Fugle	KRIO	2174/7,7-9	70					107.		.2	8.6	1.72
	Inductor	1102	Lenox Fugle	NRIO	2:7A/7.7-9	7.0					107		.2	8.6	1.72
	Inductor	1103		NR10	2174/7.7-9	0/					107.		.2	8.6	i.72
	Inductor	1.104	Lenox Fugle	VR10	2174/7.7-9	70					10.		.2	8.6	1,72

25 June 1973 Guard Receiver

LE FUNCTIONAL BLOCK PAGE 1 OF

Airhorne Applique, 376600 DRAWING NO.

TOTAL FAILURE RATE . 697275

DEGREES CENTIGRADE

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	Inductor	1106	Lenox Fugle	NRIC	217A/7.7-9	70					107		,	8 6	2 2
	Transformer	T202	CEC		217A/7.7-9	70					1002		,	2	,
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	Transformer	T103	CEC		217A/7.7-9	7.0					107.		~	2	200
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	Crystal Filter	11	2	376652	217A/7.4-13	7.0					1007		6.08		85
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TOTAL FAILURE RATE 3, 28109 KI

25 June 1973

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Guard Receiver

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DRAWING NO. Airborne Applique. 374400

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Capacitor	717		CKRODIX 105KR	1988/1001.2	70	Λ	50	٥	12	1007	124	.0005	٠ س	.0025
Capacitor	C115		CKR@58X333KR	1988/1001.2	70	λ	100	0	12	107	.12	.0005	2	.0025
Essistor	R106		RCR05G10448	1994/301.2	70	.40	125	0	-	7007	-	000	10	. 9024
Resistor	R109		RCB05G163JS	1994/301.2	70	278	125	C	٧	100	-	2000	] =	7,00
Resistor	R110		RCR05C393JS	1998/301.2	70	126	125	Ú				000	2	700
Resistor	RILL		RCR05G512.1S	199A/301.2	70	7	125	o	-		-	2000	1	7,00
Resistor	R112		RCR05G182.1S	1994 (307:20	20	3	125	C	V	_	-		i	700
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Resistor	R114		RCR05G150JS.	1994 (398122	70	2	175	c	2		1	4000	2	0033
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Hybrid	6010		377662*	USAECOM	70					1001		κ •		3.036
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TEMP. DATE 25 June 1973
LA FUNCTIONAL BLOCK Guard Audio
PAGE 1 OF 2

Afrborne Applique 376600

DRAWING NO.

TOTAL FAILURE RATE 18.81528 X10-5

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FUNCTIONAL BLOCK Guard Audio

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PAGE OF 2 DRAWING NO. Airhorne Applique, 376600 -180-

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DEGREES CENTIGRADE

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PAGE ? OF ? DRAWING NO.

Afrivine Applique, 176,00

X10-5 DEGREES CENTIGRADE TOTAL FAILURE RATE . 4425

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Γ	Cepacitor	<b>c363</b>		S685R-20	217A/7.6-81		Ď	×	6					$\downarrow$	1
ľ	Cepacitor	C301		CKR055X103KR	<u></u>		-		*	3		7	028	ì	25
T	<b>Eesistor</b>	R301		KW&GE130R1F	1994/106	7.0	7		7	7	201		5000	<u></u>	-005
T	Resistor	R302		RCR07G101JS	1904/101 2	Ş			4 ,	9		1	17.00	١.	7003
-γ	Resistor	R303		RCR05G102.1S	1994/301 2	5			'		1025		• 00004	i	.002
	Resistor	R304		RCE07G1011S	٦.	,				<b>v</b>	1032		000	<u> </u>	.002
-	Resistor	R305		RCR07G1971S		9 6		7	70	2	1001	7	2000		005
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*		7~	2571.25	C.	217677.12-3	22					1005				Ι.
	ne i sy		H1-6	E-26-126	2178/7,10-5	70					1002	43	2-10-		.875G
	Diode Sizer	<b>C3301</b>		1N5632	217A (7. 4-11	25.7	3	<b>,</b>	(	(	,	,			1
	Diode S;	CR 302		184148	217477 6-11	,		,			3	1	789	٧	2.052
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NdN	Trensistor	1910			11-50//4:17	7	3	-	0		1007	5.1	:::	~	2,31
Ł				283716	2174/7_4-13	757	7	150	4	,	100	V	627	В	3.624
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-↓-	Transistor	2000		2N2222A	217A/7 6.12	1110							1		7.612
		2060		CKR06BX105KB	1988/001 a	5			9 2	7	1001	7	455		218-5
		€307		RCR05GZ0315	1003/2013	<del> </del>	<del></del>	7	7.4.	26	1001	4.8	.0035	2	.017
		R 20.R		500000000000000000000000000000000000000	1228/30146	2/	2	\$23	q	20	1007	416	C003	10	.003
1	<b>1</b>			RCKU3G203.1S	1994/301.2	20,	·ě	125	<b>7</b> 1	- 7	1600	- `		10	.002

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Power Supply FUNCTIONAL BLOCK

PAGE 1 OF

DRAWING NO. A'Thorne

TOTAL FAILURE RATE 1.88261

DEGREES CENTIGRADE

APPENDIX IV

HYBRID CIRCUIT AND  $\lambda_{\mathrm{DS}}$  COMPUTATIONS

#### HYBRID MICROCIRCUIT FAILURE RATE MODEL DEFINITIONS

- $\mathbb{Q}$   $\sum_{SP}$  Failure rate due to substrate and film processing.
- (2) As Area of the substrate.
- 3 NC Number of conductor paths.
- 4 N<sub>R</sub> Number of resistors.
- (5) N<sub>I</sub>. Number of flying leads.
- 6 N<sub>T</sub> Number of lead terminations
- O NE Total complexity
- λ<sub>C</sub> Complexity Term.
- 10 npp Package failure rate adjustment factor.
- $\bigcirc$   $\lambda_{RT}$  Film resistor failure rate.
- (1) NRT Number of film resistors of a given tolerance.
- (1)  $N_Z$  Number of monolithic integrated circuits of a given type.
- $\Delta_{\rm Z}$  Monolithic integrated circuit failure rate.
- (B) No Number of transistors of a given type.
- 16 λ<sub>O</sub> Transistor failure rate.
- N<sub>CR</sub> Number of diodes of a given type.
- (B) ACR Diode failure rate.
- (19) N<sub>CC</sub> Number of chip capacitors.
- 20 ACC Failure rate for chip capacitors.
- (2)  $\sum_{\lambda_{DC}} N_{DC}$  Sum of discrete chip device failure rates.
- 2 NPR Number of conventionally packaged resistors of a given type.
- $\lambda_{p_R}$  Packaged resistor failure rate.
- (4) N<sub>PC</sub> Number of coils of a given type.
- (1) Apc Coil failure rate.
- E LACP NCP Sum of conventionally packaged device failure rates.

- $\lambda_{\mathbf{b}}$ Base failure rate.
- Hybrid failure rate.  $\lambda_{\text{H}}$
- 3334567889889889889889889889898989899899<l пΤ Temperature factor.
- (3) (3) (3) (3)  $\pi_Q$ Quality factor.
- $\pi_{\mathbf{E}}$ Environmental factor.
- πs Screening factor.
- Base failure rate.  $\lambda_b$

Hybrid failure rate.  $\boldsymbol{\lambda}_{H}$ 

376112 Coil Driver

$\sum_{SP}$	
N	$E = N_R + N_C + N_L + N_T/2$ $34 + 64 + 25 + 68.5 = 191.5$
λ,	C = .012
A	s • 5
ASAC	
λρμπρ	F =
$\sum_{N_{\mathbf{R},\mathbf{T},\mathbf{\lambda}}}$	RT
	$\sum_{N_Z \lambda_Z}$
	$\sum_{N_{Q\lambda_Q}}$ =
•	ZN <sub>CR</sub> λ <sub>CR</sub> =
	Σν <sub>cc</sub> λ <sub>cc</sub> = <u>.</u> <u>ö</u>
$\sum_{y DC_N}$	$DC = \sum_{N_{Z\lambda Z}} + \sum_{N_{CR\lambda_{CR}}} + \sum_{N_{CC\lambda_{CC}}} \sum_{3P+10}$
	Σ <sub>NPRλPR</sub>
ť	Σ <sub>NPCλPC</sub> ······ <u></u>
	$CP = \sum_{N_{PR}} N_{PC} + N_{PC} N_{PC} $
λb = 2	$\sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT} \times \lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots A_{SSS}}$
λ <sub>H</sub> = 2	λ <sub>b</sub> (π <sub>T</sub> x π <sub>E</sub> x π <sub>Q</sub> ) x 10 <sup>6</sup>
λ <sub>H</sub> = _	$ \frac{\begin{pmatrix} M-2.5 \\ W\cdot 2.5 \\ A-2.7 \end{pmatrix}}{\begin{pmatrix} M-2.5 \\ V\cdot 2.5 \\ A-2.7 \end{pmatrix}} = \frac{\begin{pmatrix} M-2 \\ V-7 \\ A-5 \end{pmatrix}}{\begin{pmatrix} N-2 \\ V-7 \\ A-5 \end{pmatrix}} = \frac{\begin{pmatrix} 2.2790 \\ 7.5765 \\ A-5 \\ \begin{pmatrix} 3.2307 \\ A-5 \end{pmatrix}}{\begin{pmatrix} 3.232 \\ A-5 \\ \begin{pmatrix} 3.232 \\ A-33 \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3325 \\ \begin{pmatrix} 3.2325 \\ A-3325 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ A-3325 \\ \begin{pmatrix} 3.2325 \\ A-3325 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ \begin{pmatrix} 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ 3.2325 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ 3.2325 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ A-3235 \\ A-3235 \\ \end{pmatrix}}{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235 \\ A-3235 \\ \end{pmatrix}} = \frac{\begin{pmatrix} 3.2325 \\ 3.2325 \\ A-3235$

376114 RELAY DRIVER

Σ <sub>SP</sub>	
$N_E = N_R + N_C + N_L + N_T/2$ = $19 + 31 + 16 + 22$	<u> </u>
λ <sub>C</sub> = .0105 A <sub>S</sub> = .516	
A <sub>S</sub> λ <sub>C</sub> =	
λpFπpF =	
$\sum_{N_{RT}\lambda_{RT}}$	
$\sum_{N_{Z\lambda_Z}}$	•
$\sum_{N_{Q\lambda Q}}$	
$\sum_{\mathbf{N}_{\mathbf{CR}}} \mathbf{N}_{\mathbf{CR}} = \dots$	
Σν <sub>cc</sub> ν <sub>cc</sub>	
$\sum_{\lambda DC^{N}DC} = \sum_{N_{Z}\lambda_{Z}} + \sum_{N_{CR}\lambda_{CR}} + \sum_{N_{CR}\lambda_{CR}}$	οςλ <sub>C</sub> ς·····
$\sum_{N_{PR}\lambda_{PR}}$	
Σ <sub>NPCλPC</sub>	. <u>O</u>
$\sum_{\lambda \text{CPNCP}} = \sum_{N_{1} R^{\lambda} PT} + N_{PC\lambda PC} \cdots$	
$\lambda_b = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \pi_{PF} + \sum_{N_{RT}} \lambda_{SN}$	$\times_{\lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots \dots n^{2-2}}$
$\lambda_{\rm H} = \lambda_{\rm b} \ (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$	
$\lambda_{H} = \frac{M - 2.5}{M - 2.5} = \frac{1.25\%}{(.27\%)}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

376216

TRANSMIT INPUT CONTROL

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = 29 + 27 + 26 + 37 = 131
λ <sub>C</sub> = , ο 115
A <sub>S</sub> = 390 A <sub>S</sub> λ <sub>C</sub> =
λρμπρ <sub>τ</sub>
$\sum_{N_{RT}\lambda_{RT}}$ =
$\sum_{N_{Q\lambda_Q}} \sum_{N_{Q\lambda_Q}} mbda \in P^{N} \in P} \sum_{n \in PR} \sum_{k \in P} \sum_{n \in PR} \sum_{k \in PR} \sum_{n \in PR} \sum_{k \in PR} \sum_{n \in PR} \sum_{k \in PR} \sum_{n \in PR} \sum_{$
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT} \times \lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots \frac{N_{CP} N_{CP$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{M - 2.5}{W - 2.5} = \frac{W - 2.5}{W$

376261 IF MODE SWITCH

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$
$=$ $\frac{7}{7} + \frac{16}{10} + \frac{10}{10} + \frac{7}{7} = \frac{40}{10}$
λ <sub>C</sub> = .0105
As = .3074
A <sub>S</sub> λ <sub>C</sub> =
λprπpr =
$\sum_{\mathbf{N}_{\mathbf{R}\mathbf{T}}\lambda_{\mathbf{R}\mathbf{T}}}$ =
$\sum_{N_{Z}\lambda_{Z}}$
$\sum_{N_{Q\lambda_Q}}$
Σ <sub>N<sub>CR</sub>λ<sub>CR</sub> </sub>
ZNCRACR ZNCCACC ZNCCACC
the state of the s
$\sum_{\lambda DC} N_{DC} = \sum_{\lambda CR} N_{Z\lambda Z} + \sum_{\lambda CR} N_{CR} + \sum_{\lambda CC} N_{CC} N_{CC} + \sum_{\lambda CR} N_{CR} N_{CR} + \sum_{\lambda CR} N_{CR} N_{CR} N_{CR} + \sum_{\lambda CR} N_{CR} N_{CR} N_{CR} + \sum_{\lambda CR} N_{$
N <sub>PR</sub>
NPCAPC
$\sum_{\lambda \in P^{N} \in P} = \sum_{N \in PR} \sum_{P \in T} + N_{PC} \sum_{P \in PC} \dots \bigcirc$
$\lambda_b = \sum_{SP} + A_{S\lambda_C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \kappa_{\lambda_{RT}} + \sum_{\lambda_{DC}} N_{DC} + \sum_{\lambda_{CP}} N_{CP} \dots \frac{5765}{2}$
$\lambda_{\rm H} = \lambda_{\rm D} (n_{\rm T} \times n_{\rm E} \times n_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{0766}{A - 2.7} \begin{cases} M - 2.5 \\ V - T \\ A - 2.7 \end{cases} \begin{cases} \frac{M - 2.5}{1915} \begin{cases} M - 2 \\ 1915 \\ A - 5 \end{cases} \end{cases} \frac{12730}{123705} 127$

## 376259 12.5 MH= IF AMP

Σ <sub>SP</sub>	. 0200
$N_E = N_R + N_C + N_L + N_T/2$ = $10 + 13 + 7 + 18 = 48$	
λc = .0105 As = .2815	
Ashc -	
λpFπpr =	
$\sum_{N_{Z^{\lambda}Z}} \sum_{z=1}^{\infty} \sum$	<u>, ၈၀၃ ႐</u>
$\sum_{N_{Q\lambda_Q}} = \sum_{0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 < i, 0 <$	
$\sum_{\text{NCR}^{\lambda}\text{CR}} \frac{1}{2} $	
$\sum_{\lambda DC} N_{DC} = \sum_{N_Z \lambda_Z} + \sum_{N_{CR} \lambda_{CR}} + \sum_{N_{CC} \lambda_{CC}}$	. 0 6 1 0
∑NPRXPR 5	
$\sum_{\lambda \text{CPN}_{\text{CP}}} \sum_{N_{\text{PR}} \lambda_{\text{PT}}} + N_{\text{PC} \lambda_{\text{PC}}}$	<u> </u>
$\lambda_{\rm b} = \sum_{\rm SP} + A_{\rm S\lambda C} + \lambda_{\rm PF} \eta_{\rm PF} + \sum_{\rm N_{RT}} \times \lambda_{\rm RT} + \sum_{\rm \lambda_{DC} N_{DC}}$	
$\lambda_{\rm H} = \lambda_{\rm b} (n_{\rm T} \times n_{\rm E} \times n_{\rm Q}) \times 10^{-6}$	
$M = \frac{M - 2.5}{W - 2.5} \begin{cases} \frac{(1.2300)}{(1.2300)} & M - 2 \\ V - T & \frac{9.5}{9.5} \\ A - 2.7 \end{cases}$	20 X.4= 2.74.5

## 377651

## R DETECTOR INTERFACE

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = $21 + 27 + 16 + 26 = 90$
λ <sub>C</sub> = .0105
A <sub>S</sub> = .3 PO A <sub>S</sub> λ <sub>C</sub> =
λpgπpg =
$\sum_{N_{Z\lambda_{Z}}} = \sum_{Q} \frac{Q}{Q}$
$\sum_{N_{Q\lambda Q}} = \dots \underline{\qquad .0940}$
$\sum_{N_{CC} \lambda_{CC}} = \frac{\circ}{\circ \circ \circ \circ}$
$\sum_{\lambda DC} N_{DC} = \sum_{N_{Z}\lambda_{Z}} + \sum_{N_{CR}\lambda_{CR}} + \sum_{N_{CC}\lambda_{CC}} \dots $
$\sum_{N_{PR}\lambda_{PR}}$
$\sum_{\lambda \in P^{N} \in P} = \sum_{N_{PR} \lambda_{PT}} + N_{PC} \lambda_{PC} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots$
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \times \lambda_{RT} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots 15^{-4/3}}$
$\lambda_{\rm H} = \lambda_{\rm b} \ (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$ $(M - 2.5) \ (.3 \text{PSP} \ (M - 2)) \ (.77 \text{PS}) \ (.20 \text{PS})$
$\lambda_{H} = \frac{\begin{cases} M - 2.5 \\ V - 2.5 \\ A - 2.7 \end{cases}}{\begin{cases} M - 2.5 \\ W - 2.5 \\ A - 2.7 \end{cases}} = \frac{\begin{cases} .3 \times 5 \times 7 \\ 0.3 \times 5 \times 7 \\ 0.4 \times 6 \end{cases}}{\begin{cases} M - 2 \\ 0.77 \times 5 \\ 0.7002 \times 4 \end{cases}} = \frac{\begin{cases} .20 \times 6 \\ 0.20 \times 6 \\ 0.77 \times 5 \end{cases}}{\begin{cases} .20 \times 6 \\ 0.77 \times 5 \end{cases}}$

## 377652

Ø DETECTOR INTERFACE

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$
λ <sub>C</sub> =
A <sub>S</sub> =
Ashc =
λpg-πpg =
$\sum_{N_{RT}\lambda_{RT}} = \dots $
$\sum_{\mathbf{N}_{\mathbf{Z}}\lambda_{\mathbf{Z}}} = \dots$
$\sum_{NQ\lambda Q} = \dots \underline{0940}$
$\sum_{\mathbf{C}} N_{\mathbf{C}\mathbf{R}} \lambda_{\mathbf{C}\mathbf{R}} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots$
$\sum_{C} N_{CC} \lambda_{CC} = \dots \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$
$\sum_{\lambda_{DC}N_{DC}} = \sum_{N_{Z\lambda_{Z}}} + \sum_{N_{CR\lambda_{CR}}} + \sum_{N_{CC\lambda_{CC$
Σ <sub>NPRλPR</sub>
ΣN <sub>PC</sub> λ <sub>PC</sub> ο
$\sum_{A \in P^{N} \in P} = \sum_{A \in P^{N} \setminus P^{N}} \sum_{A \in P^{N} \setminus P^{$
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \times \lambda_{RT} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP}} \dots \underline{\qquad \qquad } $
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{\begin{cases} M - 2.5 \\ W - 2.5 \\ A - 2.7 \end{cases}}{\begin{cases} M - 2.5 \\ W - 2.5 \\ A - 2.7 \end{cases}} = \frac{\begin{cases} .3858 \\ .3859 \\ 0.4766 \end{cases}}{\begin{cases} M - 2 \\ V - T \\ A - 5 \end{cases}} = \frac{\begin{cases} .7775 \\ .2.7002 \\ .2.0830 \end{cases}}{\begin{cases} .2083 \\ .8332 \end{cases}}$

377653

CURRENT CONTROL

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = $45 + 122 + 26 + 455 = 238.5$
Ac = .0105
Ashc =
λpFπpF =
$\sum_{N_{RT}\lambda_{RT}} = \dots$
$\sum_{N_{Z\lambda_Z}} = \underbrace{\frac{1.2000}{1.2000}}_{N_{Q\lambda_Q}}$ $\sum_{N_{CR}\lambda_{CR}} = \underbrace{\frac{0.270}{0.0090}}_{0.0090}$
$\sum_{N_{CC} N_{CC}} \sum_{N_{CR} N_{CR}} \sum_{N_{CR} N_{CR}} \sum_{N_{CC} N_{CC}} \sum_{N_{CR} N_{CR}} \sum_{N_{CR} $
$\sum_{\text{NPC}^{\lambda}PC} \sum_{\text{NPR}^{\lambda}PT} + \text{NPC}^{\lambda}PC $
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \pi_{PF} + \sum_{N_{RT}} x_{\lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP}} \dots $
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{3.14.12}{A - 2.5} \begin{cases} M - 2.5 \\ W - 2.5 \\ A - 2.7 \end{cases} = \begin{cases} 7.8530 \\ 7.8530 \\ P.4812 \end{cases} \begin{cases} M - 2 \\ V - 7 \\ A - 5 \end{cases} = \begin{cases} 15.7060 \\ 54.5700 \\ 42.4062 \end{cases} = \begin{cases} 6.2824 \\ 21.9824 \\ 16.9625 \end{cases}$

377661 WIDEBAND FILTER/DETECTOR

$\sum_{\text{SP}}$
$N_E = N_R + N_C + N_L + N_T/2$
= 15 + 29 + 17 + 22 = P3
$\lambda_{\rm C} = .0120$
$A_S = .212$
Asλc =
λpFπpF =
$\sum N_{RT} \lambda_{RT} = \frac{0.072}{1.0072}$
$\sum_{N_{Z\lambda_Z}} = \dots$
$\sum_{N_{Q\lambda_Q}} = \dots$
Σ <sub>NCR</sub> λ <sub>CR</sub> =
ΣN <sub>CC</sub> λ <sub>CC</sub> =
$\sum_{\lambda DC} N_{DC} = \sum_{N_{Z\lambda Z}} + \sum_{N_{CR\lambda CR}} + \sum_{N_{CC\lambda CC}} \sum_{Sq_{1S}}$
Σ <sub>NPRλPR</sub>
Σ <sub>NPCλPC</sub> ο
$\sum_{\lambda \in PN \in P} \sum_{N_{PR} \lambda_{PT}} + N_{PC} \lambda_{PC} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots$
$\lambda b = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \lambda_{RT} + \sum_{\lambda_{DC}} N_{DC} + \sum_{\lambda_{CP}} N_{CP} \dots \underline{\lambda_{HO}}$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{\left\{ \begin{array}{c} M - 2.5 \\ V - 2.5 \\ A - 2.7 \end{array} \right\}}{\left\{ \begin{array}{c} M - 2.5 \\ V - 3.49 \end{array} \right\}} = \frac{\left\{ \begin{array}{c} 3.2200 \\ 1.2920 \\ 1.2700 \end{array} \right\}}{\left\{ \begin{array}{c} 3.2200 \\ 1.2920 \end{array} \right\}} = \frac{\left\{ \begin{array}{c} 1.2920 \\ 1.2920 \end{array} \right\}}{\left\{ \begin{array}{c} 2.4276 \end{array} \right\}}$

377662

AMPLIFIER DETECTOR

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ $= \frac{19 + 35 + 18 + 31}{45 + 18 + 31} = \frac{93}{45}$
$\lambda_{C} = 0140$ $A_{S} = 0.215$
Asλc =
λpFπpF =
$\sum_{\mathbf{N_{RT}}\lambda_{\mathbf{RT}}} = \dots \underbrace{0.095}$
$\sum_{N} N_{Z} \lambda_{Z} = \dots \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$
$\sum_{NQ\lambda Q} = \dots $
$\sum_{N_{CR}^{\lambda}_{CR}} = \dots $
$\sum_{N_{CC} \lambda_{CC}} = \dots $
$\sum_{\lambda DC} N_{DC} = \sum_{N_{Z}\lambda_{Z}} + \sum_{N_{CR}\lambda_{CR}} + \sum_{N_{CC}\lambda_{CC}} \dots $
$\sum_{N_{PR\lambda_{1},R}}$
$\sum_{N_{PC}\lambda_{PC}}$
$\sum_{\lambda \in P^{N} \in P} = \sum_{N_{PR} \lambda_{PT}} + N_{PC} \lambda_{PC} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots$
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} x_{\lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP}} \frac{1}{1 + \sum_{N_{CP} N_$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{\begin{pmatrix} M - 2.5 \\ V - 2.5 \end{pmatrix}}{\begin{pmatrix} A - 2.5 \\ A - 2.7 \end{pmatrix}} = \frac{\begin{pmatrix} 2.2449 \\ 2.4449 \\ A - 3 \end{pmatrix}}{\begin{pmatrix} A - 2 \\ A - 3 \end{pmatrix}} = \frac{\begin{pmatrix} 4.4265 \\ 2.4449 \\ A - 5 \end{pmatrix}}{\begin{pmatrix} 4.4265 \\ 2.4243 \\ A - 5 \end{pmatrix}} = \frac{\begin{pmatrix} 4.4265 \\ 2.2423 \\ 4.427 \\ A - 5 \end{pmatrix}}{\begin{pmatrix} 4.4265 \\ 2.2423 \\ 4.427$

377662\* GUARD AMPLIFIER DETECTOR

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = 12 + 24 + 13 + 12 = 61
$\lambda_{\rm C} = .0.05$
$A_{S} = .215$
Ashc =
λруπру =
$\sum_{N_{RT}\lambda_{RT}} = \dots $
$\sum_{N_{Z\lambda_{Z}}} = \dots \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$
$\sum_{N_{Q\lambda Q}} N_{Q\lambda Q} = \dots $
Σ <sub>N<sub>CR</sub>λ<sub>CR</sub> =</sub>
$\sum_{\lambda_{DC}N_{DC}} \sum_{N_{Z\lambda_{Z}}} \sum_{N_{CR\lambda_{CR}}} \sum_{N_{CC\lambda_{CC}}} \sum_{N_{CR\lambda_{CR}}} \sum_{N_{CC\lambda_{CC}}} \sum_{N_{CR\lambda_{CR}}} \sum_{N_{CC\lambda_{CC}}} \sum_{N_{CR\lambda_{CR}}} \sum_{N_{CC\lambda_{CC}}} \sum_{N_{CR\lambda_{CR}}} \sum_{N_{$
ZNPRAPR
N <sub>PC</sub> λ <sub>PC</sub>
$\sum_{\lambda \in P^{N} \in P} = \sum_{N_{PR} \lambda_{P,T}} + N_{PC} \lambda_{PC} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots$
$\lambda_{b} = \sum_{SP} + A_{S\lambda_{C}} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \times \lambda_{RT} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots \underline{scal}}$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{\left\{ \begin{array}{c} M - 2.5 \\ W - 2.5 \\ A - 2.7 \end{array} \right\}}{\left\{ \begin{array}{c} M - 2.5 \\ V - Y \\ A - 2.7 \end{array} \right\}} = \frac{\left\{ \begin{array}{c} 1.4057 \\ 1.4057 \\ 1.5172 \end{array} \right\}}{\left\{ \begin{array}{c} M - 2 \\ A - 5 \end{array} \right\}} = \frac{\left\{ \begin{array}{c} 2.8115 \\ 9.8402 \end{array} \right\}}{\left\{ \begin{array}{c} 2.5331 \\ 7.5510 \end{array} \right\}}$

377663

AUDIO FILTER

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = $14 + 31 + 12 + 22 = 79$
$\lambda_{C} = .012$ $A_{S} = .220$
$A_{S\lambda C} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
λprπpr =
$\sum_{N_{RT}\lambda_{RT}}$ =
$\sum_{\mathbf{N}_{\mathbf{Z}}\lambda_{\mathbf{Z}}} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$\sum_{\mathbf{N}_{\mathbf{Q}\lambda_{\mathbf{Q}}}} \mathbf{N}_{\mathbf{Q}\lambda_{\mathbf{Q}}} = \dots $
$\sum_{\mathbf{N}_{\mathbf{CR}}} \sum_{\mathbf{CR}} \sum_{CR$
ΣN <sub>CCλ</sub> CC =ος 20
$\sum_{\lambda_{DC}N_{DC}} = \sum_{N_{Z\lambda_{Z}}} + \sum_{N_{CR\lambda_{CR}}} + \sum_{N_{CC\lambda_{CC$
Σ <sub>NPRλPR</sub>
$\sum_{\lambda \in P^{N} \in P} \sum_{N_{PR} \lambda_{PT}} + N_{PC} \lambda_{PC} $
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \times \lambda_{RT} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots 26.56}$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{\begin{cases} M - 2.5 \\ V - 2.5 \\ A - 2.7 \end{cases}}{\begin{cases} N - 2.5 \\ V - 2.5 \\ A - 2.7 \end{cases}} = \frac{\begin{cases} N - 2.5 \\ N - 2.5 \\ N - 2.5 \\ N - 2.5 \end{cases}}{\begin{cases} N - 2.5 \\ N - 2.5 \\ N - 2.5 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \end{cases}} = \frac{N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \end{cases}}{\begin{cases} N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \\ N - 2 \end{cases}} = N - 2 \\ $

## 377666 OUTPUT AMPLIFIER.

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = 31 + 61 + 33 + 30.5 = 155.5
$\lambda_{C} = .0105$ $A_{S} = .504$
Asλc =
λpFπpF =
$\sum_{R_{T}\lambda_{RT}} = \dots $
$\sum_{N_{Z}\lambda_{Z}} = \dots \underline{7 p_{A/3}}$
Σ <sub>NQλQ</sub> =
$\sum_{\mathbf{N}_{\mathbf{CR}}} \sum_{\mathbf{CR}} \sum_{\mathbf{N}_{\mathbf{CR}}} \sum_{\mathbf{N}_{$
ΣN <sub>CC</sub> λ <sub>CC</sub> =
$\sum_{\lambda DC} N_{DC} = \sum_{\lambda CR} N_{Z\lambda Z} + \sum_{\lambda CR} N_{CR\lambda CR} + \sum_{\lambda CC\lambda CC} N_{CC\lambda CC}$
Σ <sub>NPRλPR</sub>
ZNPCAPC
$\sum_{\lambda \in P^N \in P} = \sum_{N_{PR} \lambda_{PT}} + N_{PC \lambda_{PC}} $
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT} \times \lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots \frac{N_{CP} N_{CP}}{N_{CP} N_{CP}} + \sum_{N_{CP} N_{CP} \dots \frac{N_{CP} N_{CP}}{N_{CP} N_{CP}} + \sum_{N_{CP} N_{CP} \dots \frac{N_{CP} N_{CP}}{N_{CP} N_{CP}} + \sum_{N_{CP} N_{CP} \dots \frac{N_{CP} N_{CP}}{N_{CP} N_{CP}} + \sum_{N_{CP} N_{CP} \dots N_{CP}} + \sum_{N_{$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{1.4422}{A - 2.73} = \frac{\begin{cases} M - 2.5 \\ W - 2.5 \end{cases}}{\begin{cases} 3.6055 \\ A - 2.73 \end{cases}} = \frac{3.6055}{3.6055} = \frac{7.2100}{V - T} = \frac{7.2100}{25.2225} = \frac{2.2245}{10.0957} = \frac{2.2245}{10.0957}$

## 377667 MODULATION AMP

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = 16 + 29 + 16 + 13 = 74
$\lambda_{\rm C} = .00$
$A_{S} = .2/35$ $A_{S\lambda_C} =$
λprπpr =
\( \text{N}_{\text{RT}} \tag{\text{RT}} = \text{
$\sum_{N_{Q\lambda_Q}} \sum_{N_{Q\lambda_Q}} CC} \lambda_{CC}} = \underbrace{\qquad \qquad }_{o = 1}$
$\sum_{\lambda DC} N_{DC} = \sum_{\lambda Z} N_{Z\lambda Z} + \sum_{\lambda CR} N_{CR\lambda CR} + \sum_{\lambda CC\lambda CC} N_{CC\lambda CC}$
$\sum_{N_{PR}\lambda_{PR}}$
$\sum_{\lambda CP^{N}CP} \sum_{N} \sum_{PR^{\lambda}PT} + N_{PC^{\lambda}PC}$
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \pi_{PF} + \sum_{N_{RT}} \times \lambda_{RT} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots 2 - 7 + 4}$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{0.8674}{(A-2.7)} \begin{cases} M-2.5 \\ W-2.5 \\ A-2.7 \end{cases} = \frac{(3.1625)}{(2.3420)} \begin{cases} M-2 \\ V-7 \end{cases} = \frac{(3.1795)}{(3.1795)} \begin{cases} M-2 \\ V-7 \end{cases} = \frac{(3.1795)}{(3.1795)} \begin{cases} M-2 \\ M-2 \end{cases}$

377668

12.5 MHz Lim. - Disc.

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = 13 + 21 + 9 + 23.5 = 66.5
$\lambda_{\mathbf{C}} = .0.05$
A <sub>S</sub> = .204
Ashc =
λρεπρε =
$\sum_{N_{RT}\lambda_{RT}} = \dots$
$\sum_{N_{Z}\lambda_{Z}} = \dots \underline{1920}$
$\sum_{N_{CR}}^{N_{CR}} \sum_{n=0}^{N_{CR}} \frac{1}{n}$
$\sum_{\lambda DC^{N}DC} \sum_{N = 1}^{N}$
Σ <sub>NPRλPR</sub> ο
$\sum_{\lambda \in PN \in P} = \sum_{PR} N_{PR} N_{PT} + N_{PC} N_$
$\lambda_{b} = \sum_{SP} + A_{S\lambda_{C}} + \lambda_{PF} \pi_{PF} + \sum_{N_{RT} \times \lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots \underline{N_{CP} N_$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{1}{1000} \begin{cases} M - 2.5 \\ W - 2.5 \\ A - 2.7 \end{cases} = \begin{cases} 1.79 po \\ 1.79 po \\ A - 2.7 \end{cases} \begin{cases} M - 2 \\ V - 7 \\ A - 5 \end{cases} = \begin{cases} 3.5960 \\ 12.5860 \\ 9.7092 \end{cases} \begin{cases} 1.413 + 41 \\ 5.03 + 41 \\ 3.88 + 2.7 \end{cases}$

377671 D/A CONVERTER

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$
= 9 + 26 + 16 + 15.5 = 66.5
yC = 0102
As = .450
Ashc =
λpFπpF =ομο
$\sum_{N_{RT}\lambda_{RT}}$ =
$\sum_{\mathbf{N}_{\mathbf{Z}}\lambda_{\mathbf{Z}}} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$\sum_{NQ\lambda Q} = \dots $
$\sum_{N_{CR}\lambda_{CR}} = \dots $
$\sum_{N_{CC} \land CC} = \dots $
$\sum_{\lambda DC} N_{DC} = \sum_{N_{Z}\lambda_{Z}} + \sum_{N_{CR}\lambda_{CR}} + \sum_{N_{CC}\lambda_{CC}} \dots $
∑ <sub>NPRλPR</sub>
$\sum_{N_{PC}\lambda_{PC}}$
$\sum_{\lambda \in P^{N} \in P} = \sum_{P \in \Lambda_{PT}} + N_{PC\lambda PC} \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots$
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} x_{\lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots \underline{STPH}}$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{\begin{cases} M - 2.5 \\ W - 2.5 \end{cases}}{\begin{pmatrix} M - 2.5 \\ W - 2.5 \end{pmatrix}} = \frac{\begin{cases} 1.2960 \\ 1.2960 \end{cases}}{\begin{pmatrix} N - 2 \\ V - 7 \end{cases}} = \frac{\begin{cases} 2.5920 \\ 9.0720 \\ 4.997 \end{pmatrix}}{\begin{pmatrix} 6.9994 \\ 2.7994 \end{pmatrix}} = \frac{3.6222}{2.7994}$

## 377675

## OSCILLATOR

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = 3 + 10 + 7 + 7 = 27
$\lambda_{C} = .014$ $A_{S} = .063$
$A_{S\lambda_C} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
λpFπpF =
$\sum_{N_{RT}\lambda_{RT}} = \dots $
$\sum_{N_{Q\lambda_Q}} N_{Q\lambda_Q} = \frac{0}{\sum_{N_{Q\lambda_Q}} N_{Q\lambda_Q}}$
$\sum_{N_{CR}\lambda_{CR}} = \sum_{N_{CR}\lambda_{CR}} = \sum_{N_{CR}\lambda_{CR}} = \sum_{N_{CR}\lambda_{CR}} = \sum_{N_{CC}\lambda_{CC}} = \sum_{N_{CR}\lambda_{CR}} = \sum_{N_{CC}\lambda_{CC}} = \sum_{N_{CR}\lambda_{CR}} = \sum_{N_{CR}\lambda_$
$\sum_{N_{PR}\lambda_{PR}}$
$\sum_{\lambda \text{CPN}_{\text{CP}}} = \sum_{N_{\text{PR}} \lambda_{\text{P.T}}} + N_{\text{PC}} \lambda_{\text{FC}} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \times \lambda_{RT} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP}} \dots \underline{c752}$
$\lambda_{\rm H} = \lambda_{\rm b} (\eta_{\rm T} \times \eta_{\rm E} \times \eta_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{\langle M - 2.5 \rangle}{\langle M - 2.5 \rangle} = \frac{\langle M - 2 \rangle}{\langle M - 2.5 \rangle} = \frac{\langle M - 2 \rangle}{\langle M - 2.5 \rangle} = \frac{\langle M - 2 \rangle}{\langle M - 2.5 \rangle} = \frac{\langle M - 2 \rangle}{\langle M - 2.5 \rangle} = \frac{\langle M - 2 \rangle}{\langle M - 2 \rangle} = \frac{\langle M - 2.5 \rangle}{\langle M - 2.5 \rangle} = \langle M - $

## 377676 VFO RF SWITCH

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = $\frac{7}{120} + \frac{20}{14} + \frac{12}{12} = \frac{53}{53}$
$\lambda_{C} = .0.05$ $A_{S} = .151$
<sup>A</sup> Sλ <sub>C</sub> =
λpFπpF =
$\sum N_{RT}^{\lambda} RT = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$\sum_{N_{Q\lambda_Q}} N_{Q\lambda_Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q\lambda_Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_{Q} N_{Q} = \sum_$
$\sum_{N_{CR}\lambda_{CR}} = \frac{0.075}{\sum_{N_{CR}\lambda_{CR}}}$ $\sum_{N_{CC}\lambda_{CC}} = \frac{0.0350}{\sum_{N_{CR}\lambda_{CR}}}$ $\sum_{N_{CC}\lambda_{CC}} = \frac{0.0350}{\sum_{N_{CR}\lambda_{CR}}}$
$\sum_{\lambda_{CP}N_{CP}} \sum_{N_{PR}\lambda_{PT}} + N_{PC}\lambda_{PC} $
$\lambda_{D} = \sum_{SP} + A_{S\lambda_{C}} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} x_{\lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots \text{ secs}}$
$\lambda_{\rm H} = \lambda_{\rm b} (m_{\rm T} \times m_{\rm E} \times m_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{M - 2.5}{W - 2.5} = \begin{cases} .2415 & M - 2 \\ V - 7 & = 1.6905 \\ A - 2.7 \end{cases} = \begin{cases} .2415 & M - 2 \\ 0.415 & 0.415 \\ 0.415 & 0.415 \end{cases}$

# 377677 VFO CONTROL

$\sum_{\text{SP}}$
$N_E = N_R + N_C + N_L + N_T/2$ = 17 + 55 + 27 + 28 = 127
$\lambda_{\mathbf{C}} = .0105$
$A_S = . P71$
$A_{S\lambda_C} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
λprπpr =
$\sum_{N_{RT}\lambda_{RT}} = \dots $
$\sum_{N_{Z}\lambda_{Z}} = \dots $
$\sum_{N_{Q\lambda_Q}} = \dots $
$\sum_{N_{CR}\lambda_{CR}} = \dots \underline{\qquad \qquad } = \dots$
Σ <sub>NCCλCC</sub> =
$\sum_{\lambda DC} N_{DC} = \sum_{N_{Z}\lambda_{Z}} + \sum_{N_{CR}\lambda_{CR}} + \sum_{N_{CC}\lambda_{CC}} \dots $
$\sum_{N_{PR}\lambda_{PR}}$
$\sum_{N_{PC}\lambda_{PC}}$
$\sum_{\lambda \text{CP}^{\text{N}}\text{CP}} = \sum_{\text{NPR}^{\lambda}\text{PT}} + \text{NPC}^{\lambda}\text{PC} \dots$
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \times \lambda_{RT} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP}} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6} + \text{cmss MsT}$
$\lambda_{H} = \frac{1}{1000000000000000000000000000000000$
ニーマルグラケー (A) サマラ (オイフテービー) <b>3 (</b> 3 3 3 5 7 ) 名

377678 PHASE DETECTOR

$\sum_{\text{SP}}$
$N_E = N_R + N_C + N_L + N_T/2$ $= 8 + 65 + 10 + 32.5 = 115.5$
$\lambda_{C} = .0105$ $A_{S} = .375$
Asλc =
λpFπpF =
$\sum_{N_{RT}\lambda_{RT}} = \dots$
$\sum_{N_{Q\lambda_Q}} N_{Q\lambda_Q} = \frac{1}{\sum_{N_{CR}\lambda_{CR}}} = \frac{1}{\sum_{N_{CR}\lambda_{CR}$
$\sum_{N_{PC}\lambda_{PC}} \sum_{N_{PR}\lambda_{PT}} + N_{PC}\lambda_{PC}$ $\lambda_{b} = \sum_{SP} + A_{S\lambda_{C}} + \lambda_{PF}\pi_{PF} + \sum_{N_{RT}} \lambda_{RT} + \sum_{\lambda_{DC}N_{DC}} + \sum_{\lambda_{CP}N_{CP}} \sum_{N_$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{\int_{-6.5  P}^{M} - 2.5}{\left( \frac{3.7395}{A} - \frac{3.4723}{2.7177} \right)} \frac{1.3716}{A - 2.7} \frac{1.7395}{\left( \frac{3.7375}{A} - \frac{3.4723}{5.3332} \right)} \frac{1.3716}{\left( \frac{3.7572}{3.7572} \right)}$

377679 VFO BUFFER

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = $\frac{g}{2} + \frac{2H}{2} + \frac{1g}{2} + \frac{g}{2} = \frac{5g}{2}$
$\lambda_{C} = .0105$ $A_{S} = .210$
$A_{S\lambda_C} = \frac{0.022}{0.0022}$
λprπpr =
$\sum_{N_{RT}\lambda_{RT}} = \dots$
$\sum_{z} N_{z\lambda z} = \dots \bigcirc$
$\sum_{\mathbf{Q}} N_{\mathbf{Q}} \lambda_{\mathbf{Q}} = \dots $
$\sum_{\mathbf{C}} N_{\mathbf{C}\mathbf{R}} \lambda_{\mathbf{C}\mathbf{R}} = \dots \qquad \underline{\circ}$
ΣN <sub>CC</sub> λ <sub>CC</sub> =
$\sum_{\lambda_{DC}N_{DC}} = \sum_{N_{Z\lambda_{Z}}} + \sum_{N_{CR\lambda_{CR}}} + \sum_{N_{CG\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC}}} + \sum_{N_{CC\lambda_{CC$
N <sub>PR</sub> <sub>APR</sub>
Σ <sub>NPCλPC</sub> <u>σ</u>
$\sum_{\lambda \in P} N_{CP} = \sum_{N_{PR}} N_{PR} + N_{PC} N_{$
$\lambda_{b} = \sum_{SP} + \lambda_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \lambda_{RT} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_1 \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{M - 2.5}{W - 2.5} = \begin{cases} .1950 & M - 2 \\ W - 2.5 & V - T \end{cases} = \frac{.3900}{(.2104)} \times 4 = \frac{.3900}{(.352)} \times 4$

# 377686 PA DRIVER

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = 7 + 22 + 26 + 19.5 = 74.5
$\lambda_{\mathbf{C}} = .0105$
$A_{S\lambda_C} = \dots \qquad \dots \qquad \dots \qquad \dots \qquad \dots \qquad \dots \qquad \dots \qquad \dots \qquad \dots \qquad \dots$
λpFπpF =
$\sum_{\mathbf{N}_{\mathbf{R}\mathbf{T}}\lambda_{\mathbf{R}\mathbf{T}}} = \dots$
$\sum_{N_{Q\lambda_Q}} N_{Q\lambda_Q} = \frac{0}{0.0720}$
$\sum_{\mathbf{N}_{\mathbf{CR}} \lambda_{\mathbf{CR}}} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$\sum_{\lambda DC^{N}DC} = \sum_{N_{Z}\lambda_{Z}} \sum_{N_{CR}\lambda_{CR}} + \sum_{N_{CC}\lambda_{CC}} $
Σ <sub>NPRλPR</sub>
$\sum_{\lambda \text{CP}^{N}\text{CP}} = \sum_{N_{PR}\lambda_{PT}} + N_{PC}\lambda_{PC} $
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \pi_{PF} + \sum_{N_{RT}} x_{\lambda_{RT}} + \sum_{\lambda_{DC}} N_{DC} + \sum_{\lambda_{CP}} N_{CP} \dots \underline{\qquad 9}$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{\begin{cases} M - 2.5 \\ W - 2.5 \\ A - 2.7 \end{cases}}{\begin{pmatrix} M - 2.5 \\ W - 2.5 \\ A - 2.7 \end{pmatrix}} = \frac{\begin{cases} M - 2 \\ M - 2 \\ M - 2 \\ M - 2 \end{cases}}{\begin{pmatrix} M - 2 \\ M - 2 \\ M - 2 \end{pmatrix}} = \frac{\langle M - 2 \\ M - 2 \\ A - 2 \end{pmatrix}}{\langle M - 2 \\ M - 2 \end{pmatrix}} = \frac{\langle M - 2 \\ M - 2 \\ M - 2 \end{pmatrix}}{\langle M - 2 \\ M - 2 \end{pmatrix}} \times \frac{\langle M - 2 \\ M - 2 \\ M - 2 \end{pmatrix}}{\langle M - 2 \\ M - 2 \end{pmatrix}} \times \frac{\langle M - 2 \\ M - 2 \\ M - 2 \end{pmatrix}}{\langle M - 2 \\ M - 2 \\ M - 2 \end{pmatrix}} \times \frac{\langle M - 2 \\ M - 2 \\ M - 2 \\ M - 2 \end{pmatrix}}{\langle M - 2 \\ M - 2$

377687 PA FINAL

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ = $P + 12 + 16 + 13 = 4/9$
$\lambda_{\mathbf{C}} = .0105$
$A_{S} = .301$
A <sub>S</sub> λ <sub>C</sub> =
λprπpr =
$\sum_{\mathbf{N_{RT}}, \lambda_{\mathbf{RT}}} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$\sum_{N_{Z}\lambda_{Z}} = \dots = 0$
$\sum_{N_{Q\lambda_Q}} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots$
$\sum_{\mathbf{N}_{\mathbf{CR}}\lambda_{\mathbf{CR}}} = \dots $
ΔN <sub>CCλCC</sub> =
$\sum_{\lambda DC} N_{DC} = \sum_{N_{Z\lambda Z}} + \sum_{N_{CR\lambda CR}} + \sum_{N_{CC\lambda CC}} \frac{10.10}{10.10}$
$\sum_{N_{PR}\lambda_{PR}}$
Σ <sub>NPCλPC</sub> ······
$\sum_{\lambda \text{CP}^{\text{N}}\text{CP}} = \sum_{\text{NPR}^{\lambda}\text{PT}} + \text{NPC}^{\lambda}\text{PC} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots$
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \eta_{PF} + \sum_{N_{RT}} \times \lambda_{RT} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP} \dots \underline{A_{SS}}} \lambda_{CP} \eta_{CP} \dots \underline{A_{SS}}$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{M - 2.5}{(W - 2.5)} = \begin{cases} 1.1350 & M - 2 \end{cases} = \frac{3.5790}{(1.1350)} \times \frac{1.1350}{(A - 5$

# 377688 ALC

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$ $= 19 + 31 + 24 + 20.5 = 94.5$
$\lambda_{C} = .0105$ $A_{S} = .3925$
$A_{S} = \frac{1}{2} \cdot \frac{1}{2$
λprπpr =
$\sum_{N_{RT}\lambda_{RT}} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots$
$\sum_{N_{Q\lambda_Q}} \sum_{N_{Q\lambda_Q}} \sum_{N_{Q\lambda_Q}} \sum_{N_{Q\lambda_{QR}}} \sum_{N_$
$\sum_{\lambda \in P^{N} \in P} \sum_{n=1}^{N_{P} \in P} \sum_{n=1$
$\lambda_{b} = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \pi_{PF} + \sum_{N_{RT}} x_{N_{RT}} + \sum_{\lambda_{DC} N_{DC}} + \sum_{\lambda_{CP} N_{CP}} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{M - 2.5}{W - 2.5} = \frac{(3465 \text{ M} - 2)}{(3465 \text{ N} - 2)} = \frac{(3465 \text{ M} - 2)}{(3662 \text{ A} - 5)} = \frac{(3465 \text{ M} - 2)}{(3330)} = \frac{(3465 \text{ M} $

377693 40.5 MHz IF AMP.

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$
= 10 + 13 + 7 + 18 = 48
$\lambda_{\rm C} = .0105$
Ag = .2815
Ashc =
λ <b>p</b> Fπ <b>p</b> F =
Natyber =
$\sum_{N_{Z\lambda_Z}}$ =
ŽNQλQ =
∑N <sub>CR</sub> λ <sub>CR</sub> =
ΣN <sub>CCλCC</sub> = ··································
$\sum_{\lambda D \subseteq N D C} = \sum_{N \subseteq \lambda Z} + \sum_{N \subseteq R} \sum_{\lambda C R} + \sum_{N \subseteq C \subseteq C \subseteq C} \sum_{\alpha \in A \subseteq A} \sum_{\alpha \in A \subseteq A} \sum_{\alpha \in A \subseteq A} \sum_{\alpha \in A} $
$\sum_{N_{PR}\lambda_{PR}}$
F
NPCAPC
$\sum_{\lambda \text{CPNCP}} = \sum_{\text{NPR}} \sum_{\text{PT}} + \sum_{\text{NPC}} \sum_{\text{PC}} \sum_{$
$\lambda_{b} = \sum_{SP} + A_{S\lambda_{C}} + \lambda_{PF\pi_{PF}} + \sum_{N_{RT}} \times \lambda_{RT} + \sum_{\lambda_{DC}N_{DC}} + \sum_{\lambda_{CP}N_{CP}} \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{(M - 2.5)}{(M - 2.5)} \begin{cases} \frac{(1.2400)}{(1.2400)} & M - 2 \end{cases} \begin{cases} \frac{(1.2400)}{(1.2400)} & M - 2 \end{cases} \begin{cases} \frac{(1.2400)}{(1.2400)} & M - 2 \end{cases}$ $A - 2.7 \begin{cases} \frac{(1.2400)}{(1.2400)} & A - 5 \end{cases} \begin{cases} \frac{(1.2400)}{(1.2400)} & A - 5 \end{cases}$

377699

40.5 MHZ LIM. - 2122

Σ <sub>SP</sub>
$N_E = N_R + N_C + N_L + N_T/2$
= 13 + 21 + 3 + 23.5 = 66.5
$\lambda_{C} = .0105$ $A_{S} = .204$
$A_{S}\lambda_{C} = \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots \dots $
λpFπpF =
$\sum_{N_{RT}\lambda_{RT}} = \dots $
5
$\sum_{N_{Q\lambda_Q}} N_{Q\lambda_Q} = \frac{1929}{2000}$
$\sum_{N_{CR} \lambda_{CR}} = \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$
$\sum_{N_{CC} \wedge CC} = \sum_{n=0}^{\infty} \sum_{n=0}^{\infty$
$\sum_{\lambda DC} N_{DC} = \sum_{N_{Z}\lambda_{Z}} + \sum_{N_{CR}\lambda_{CR}} + \sum_{N_{CC}\lambda_{CC}} \frac{1}{2} \sum_{\lambda \in S} \frac{1}{2} \sum_{k \in S} \frac{1}{2} \sum_{$
NPRAPR
Σ <sub>NPCλPC</sub>
$\sum_{\lambda \text{CPN}\text{CP}} = \sum_{\text{NPR}^{\lambda}\text{PT}} + \text{NPC}^{\lambda}\text{PC} $
$\lambda_b = \sum_{SP} + A_{S\lambda C} + \lambda_{PF} \pi_{PF} + \sum_{N_{RT}} x_{\lambda_{RT}} + \sum_{\lambda_{DC} N_{DC}} \sum_{r} \sum_{\lambda_{CP} N_{CP} \dots = \frac{r}{2}}$
$\lambda_{\rm H} = \lambda_{\rm b} (\pi_{\rm T} \times \pi_{\rm E} \times \pi_{\rm Q}) \times 10^{-6}$
$\lambda_{H} = \frac{M - 2.5}{A - 2.7} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.7} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 5 \end{array}}_{A = 2.7} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 5 \end{array}}_{A = 2.7} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 5 \end{array}}_{A = 2.7} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 5 \end{array}}_{A = 2.7} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 5 \end{array}}_{A = 2.7} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 5 \end{array}}_{A = 2.7} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.7 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.5 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ V - T \\ A - 2.5 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ W - 2.5 \\ W - 2.5 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ W - 2.5 \\ W - 2.5 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ W - 2.5 \\ W - 2.5 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ W - 2.5 \\ W - 2.5 \end{array}}_{A = 2.5} \underbrace{\begin{array}{c} M - 2.5 \\ W - 2$

#### APPENDIX V

RADC AND MIL-HDBK-217B COMPUTATIONS

,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人, 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

## MIXER FAILURE RATE - MD6 (x $10^{-6}$ ) 217A (7.4.11, 7.7.9)

- 8 SI Diodes  $T_N = .457 \, (MP, \, V)$  , .486 (A)
- 2 Transformers

CRYSTAL FILTER FAILURE RATE ( $\times$  10<sup>-6</sup>) 217A (7.12-3, 7.7.9)

376252, 376251, 376652

- 4 Crystals
- 2 Transformers

#### INTEGRATED MICROCIRCUIT FAILURE RATE PREDICTION

MICROCIRCUIT

TCXO - 376153

- 1 Ag (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 \*b (Base Failure Rate)
- 5 <sup>\*</sup>C (Complexity Factor)
- 6 \* (Quality Factor)

= 2, N  $\leq 14$ 

7 \* E (Environmental Factor)

$$\Sigma_{M} = \{.023\} \{ \} \} / 2500 = \{.023\} \{ \} \} / 2500 = \{.023\} \{ \} \} / 2500 = \{.023\} \{ \} \} / 2500 = \{.023\} \{ \} \} / 2500 = \{.023\} \{ \} \} / 2500 = \{.023\} \{ \} \} / 2500 = \{.023\} \{ \} \} / 2500 = \{.023\} \{ \} \} / 2500 = \{.023\} \{ \} / 2500$$

$$\lambda_{MC_{X}} = \begin{cases} (M), 010\% \\ (V), 010\% \\ (A), 010\% \end{cases} \begin{cases} \{4\} \} \\ 5 \end{cases} \begin{bmatrix} 2 \\ \pi_{P_{C}} \end{cases} \begin{cases} (M) & 2 \\ (V) & 7 \\ (A) & 5 \end{cases} + 0 = \begin{cases} (M), 305\% \\ (V), 209\% \\ (A), 945\% \end{cases}$$

MICROCIRCUIT Divide By 20 - 376152

- 1 As (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 Th (Base Fallure Rate)
- 5 <sup>\*</sup>C (Complexity Factor)
- 6 \* (Quality Factor)
- 7 \*F (Environmental Factor)

$$\Sigma_{M} = \{.023\}\{$$
  $\}/2500 = , A_{S} \ge 2500$ 

$$=$$
 0,  $A_S \le 2500$ 

$$\pi_{P_C} = 2 + \{ -14 \} \{ .04 \} = , N > 14$$

$$=$$
 2, N  $\leq$  14

$$\lambda_{MC_{X}} = \begin{cases} (M) & 7.07 \\ (V) & 2.107 \\ (A) & 5 \end{cases} \begin{cases} (M) & 2 \\ (V) & 7 \\ 5 \end{cases} + C = \begin{cases} (M) & 427 \\ (V) & 7 \\ (A) & 5 \end{cases} \begin{cases} (M) & 2 \\ (V) & 7 \\ (A) & 5 \end{cases}$$

MICROCIRCUIT 377656

- As (Area of Circuit in Square Mils) 1
- Number of Layers of Metalization
- 3 N (Number of Package Leads)
- \*b (Base Failure Rata)
- 5 ★C (Complexity Factor)
- 6 20 (Quality Factor)
- \* F (Environmental Factor)

$$\Sigma_{M} = \{.023\}\{$$
  $\}/2500 =$  ,  $A_{S} \ge 2500$   $=$  0,  $A_{S} < 2500$ 

$$=$$
 0,  $A_{S} < 2500$ 

$$\pi_{P_C} = 2 + \{ -14 \} \{ .04 \} = , N > 14$$

$$= 2, N \leq 14$$

$$\lambda_{MC_X} = \begin{cases} (M) .0108 \\ (V) .0108 \\ (A) .01207 \end{cases} \begin{cases} 7 \end{cases} \begin{cases} 2 \\ 5 \end{cases} \begin{cases} (M) .2 \\ (V) .7 \\ (A) .5 \end{cases} + O = \begin{cases} (M) .6048 \\ (V) .2.1168 \\ (A) .6048 \end{cases}$$

MICROCIRCUIT

377657

- 1 A<sub>S</sub> (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 \*b (Base Failure Rate)
- 5 \*C (Complexity Factor)
- 6 \* O (Quality Factor)
- 7 \* E (Environmental Factor)

2. N <u>4</u> 14

$$\Sigma_{M} = \{.023\} \{ \} \{ \} \{ 2500 = \}, A_{S} \ge 2500 \}$$

$$= 0, A_{S} < 2500$$

$$\pi_{PC} = 2 + \{ \}, -14 \} \{ .04 \} = \}, N > 14$$

$$\lambda_{MC_{X}} = \begin{cases} (M) .0108 \\ (V) .0108 \\ (A) .01207 \end{cases} \begin{cases} \{11\} \} \begin{cases} 2 \\ 5 \end{cases} \begin{cases} (M) & 2 \\ (V) & 7 \\ (A) & 5 \end{cases} \end{cases} + O = \begin{cases} (M) .9504 \\ (V) 3.3264 \\ (A) 2.6554 \end{cases}$$

MICROCIRCUIT

377658

- 1 As (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 \*b (Base Failure Rate)
- 5 \*C (Complexity Factor)
- 6 \* Q (Quality Factor)
- 7 \* E (Environmental Factor)

$$\Sigma_{M} = \{.023\} \{ \} \} / 2500 = , A_{S} \ge 2500$$

$$= 0, A_{S} < 2500$$

$$*_{PC} = 2 + \{ -14 \} \{ .04 \} = , N > 14$$

$$= 2, N \leq 14$$

$$\lambda_{MC_{X}} = \begin{cases} (M).0108 \\ (V).0108 \\ (A).01207 \end{cases} \begin{cases} 7 \end{cases} \begin{cases} 2 \\ 5 \end{cases} \begin{cases} (M) & 2 \\ (V) & 7 \\ (A) & 5 \end{cases} + \begin{cases} (M).6048 \\ (V) & 2.1168 \\ (A) & 1.6898 \end{cases} \end{cases}$$

MICROCIRCUIT 377659

- 1 As (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 \*b (Base Failure Rate)
- 5 \*C (Complexity Factor)
- 6 \* Q (Quality Factor)
- 7 \* E (Environmental Factor)

$$=$$
 0,  $A_S < 2500$ 

$$\star_{P_C} = 2 + \{ .04 \} = .04 \} = .13 > 14$$

$$=$$
 2, N  $\leq 14$ 

$$\lambda_{MC_{X}} = \begin{cases} (M) & 0.08 \\ (V) & 0.08 \\ (A) & 0.01207 \end{cases} \begin{cases} 8 \end{cases} \begin{cases} 2 \\ 5 \end{cases} \begin{cases} (M) & 2 \\ (V) & 7 \\ (A) & 5 \end{cases} + C = \begin{cases} (M) & .4912 \\ (V) & 2.4192 \\ (A) & 1.9312 \end{cases}$$

MICROCIRCUIT MC 14528AL

- 1 As (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 \* h (Base Failure Rate)
- 5 ★C (Complexity Factor)
- 6 \*Q (Quality Factor)
- 7 \*F (Environmental Factor)

$$\Sigma_{M} = \{.023\} \{ \} \} / 2500 = , A_{S} \ge 2500$$

$$= 0, A_{S} < 2500$$

$$\pi_{P_{C}} = 2 + \{ (6 - 14) \{ .04 \} = 2.08, N > 14$$

$$\lambda_{MC_{X}} = \begin{cases} (1) & 0.008 \\ (1) & 0.008 \end{cases} \begin{cases} 4 \\ 5 \\ \pi_{P_{C}} \end{cases} \begin{cases} (2) \\ (4) \\ (4) \end{cases} \begin{cases} (2) \\ (4) \end{cases} \begin{cases} (M) \\ (V) \\ (A) \end{cases} \end{cases} + \begin{cases} (M) \\ (V) \\ (A) \end{cases} \end{cases} = \begin{cases} (M) \\ (V) \\ (A) \end{cases} \end{cases}$$

MICROCIRCUIT CA3020

- $A_S$  (Area of Circuit in Square Mils)
- Number of Layers of Metalization
- (Number of Package Leads) 3
- \*b (Base Failure Rate)
- 5 \*C (Complexity Factor)
- \*Q (Quality Factor) 6
- 7 \*F (Environmental Factor)

$$\pi_{\text{PC}} = 2 + \{ -14 \} \{ .04 \} = , N > 14$$

$$= 2, N \leq 14$$

$$\lambda_{MC_X} = \begin{cases} (M) \\ (V) \\ (A) \cdot O \mid 2 \cdot C_f \end{cases} \begin{cases} \{ 2 \} \{ 2 \} \{ (M) \\ (V) \\ (A) \cdot S_f \end{cases} + \begin{cases} (\Sigma_M) \\ (E_M) \end{cases} = \begin{cases} (M) \\ (V) \\ (A) \cdot O \mid 2 \cdot C_f \end{cases}$$

MICROCIRCUIT

MC1590G

- 1 As (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 \*b (Base Failure Rate)
- 5 \*C (Complexity Factor)
- 6 \* O (Quality Factor)
- 7 \*E (Fnvironmental Factor)

$$\begin{array}{rcl} T_{M} &=& \{.023\} \{ & \} \} / 2500 &=& , \ A_{S} \geq 2500 \\ &=& 0, \ A_{S} < 2500 \\ \\ \hline \pi_{P_{C}} &=& 2 \ + \{ & -14\} \{ .04 \} &=& , \ N > 14 \\ &=& 2, \ N \leq 14 \end{array}$$

$$\lambda_{MC_{\mathbf{X}}} = \begin{cases} (M) \\ (V) \\ (A) \cdot c \cdot 207 \end{cases} \begin{cases} 9 \end{cases} \begin{cases} 1.5 \\ 5 \end{cases} \begin{cases} (M) \\ (V) \\ (A) \cdot 5 \end{cases} + \Rightarrow \begin{cases} (M) \\ (V) \\ (A) \cdot (C \cdot V) \end{cases} \end{cases} + \Rightarrow \begin{pmatrix} (M) \\ (V) \\ (A) \cdot (C \cdot V) \end{cases} \end{cases}$$

MICROCIRCUIT 40 741 AND UC 4250

- 1 As (Area of Circuit in Square Mils)
- 2 Number of Layers of Me'alization
- 3 N (Number of Package Leads)
- 4 \*b (Base Failure Rate)
- 5 \*C (Complexity Factor)
- 6 ∗<sub>Q</sub> (Quality Factor)
- 7 \*E (Environmental Factor)

$$\Sigma_{M} = \{.023\} \{ \} \{ \} /2500 = \}$$
,  $A_{S} \ge 2500$   
= 0,  $A_{S} < 2500$   
 $\pi_{PC} = 2 + \{ \} - 14 \} \{.04\} = \}$ ,  $N > 14$ 

$$=$$
 2, N  $\leq$  14

$$\lambda_{MC_X} = \begin{cases} (M) \\ (N) \\ (A) \end{cases} \Rightarrow \forall Y$$

$$\begin{cases} \{ \gamma \} \} \{ \gamma \} \{ (N) \\ (N) \} \Rightarrow \begin{cases} (M) \\ (N) \} \end{cases} \Rightarrow \begin{cases} (M) \\ (N) \} \Rightarrow \begin{cases} (M) \\ (N) \} \Rightarrow \begin{cases} (M) \\ (N) \end{cases} \Rightarrow (M) \end{cases} \Rightarrow \begin{cases} (M) \\ (M) \end{cases} \Rightarrow (M$$

MICROCIRCUIT 749

- 1 A<sub>S</sub> (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 \*b (Base Failure Rate)
- 5 \*C (Complexity Factor)
- 6 \* O (Quality Factor)
- 7 \*<sub>E</sub> (Environmental Factor)

$$\pi_{PC} = 2 + \{ -14 \} \{ .04 \} = , N > 14$$

$$= 2, N \le 14$$

$$\lambda_{MC_X} = \begin{cases} (M) \\ (M) \\ (M) \end{cases} = \begin{cases} (M) \\ ($$

MICROCIRCUIT CA3078

- 1 As (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 \*b (Base Failure Rate)
- 5 **★**C (Complexity Factor)
- 6 \* O (Quality Factor)
- 7 \* E (Environmental Factor)

$$\Sigma_{\text{M}} = \{.023\} \{ 1 \} \{ 2500 = 0, A_{\text{S}} \ge 2500 \}$$

$$= 0, A_{\text{S}} < 2500$$

$$\pi_{\text{PC}} = 2 + \{ 3 - 14 \} \{ .04 \} = 0, N > 14$$

$$= 2, N \leq 14$$

$$\lambda_{MC_{X}} = \begin{cases} (M) \\ (V) = 244 \end{cases} \begin{cases} \{c\} \} \begin{cases} 2 \\ 5 \end{cases} \begin{cases} \{c\} \} \begin{cases} (M) \\ (V) = 6 \end{cases} \end{cases} + \begin{pmatrix} \mathbf{E}_{M} \\ (A) \end{cases} = \begin{pmatrix} (M) \\ (A) \end{cases} = \begin{pmatrix} (M) \\ (A) \end{cases}$$

# MICROCIRCUIT CA3026 And 3018

- 1 A<sub>S</sub> (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- 3 N (Number of Package Leads)
- 4 \*b (Base Failure Rate)
- 5 ★C (Complexity Factor)
- 6 \* (Quality Factor)
- 7 \* E (Environmental Factor)

$$\Sigma_{M} = \{.023\} \{ 1 \} \{ 2500 = 0, A_{S} \ge 2500 \}$$

$$= 0, A_{S} < 2500$$

$$*_{P_C} = 2 + \{ 3 - 14 \} \{ .04 \} = 0, N > 14$$

$$=$$
 2, N  $\leq$  14

$$\lambda_{MC_X} = \begin{cases} (M) \\ (V) \\ (A) \end{cases} = \begin{cases} (M) \\ (V) \\ (A) \end{cases} = \begin{cases} (M) \\ (V) \\ (A) \end{cases} = \begin{cases} (M) \\ (V) \\ (A) \end{cases} = \begin{cases} (M) \\ (V) \\ (A) \end{cases}$$

Form 2625

## INTEGRATED MICROCIRCUIT FAILURE RATE PREDICTION

MICROCIRCUIT <u>u A 722</u>

- (Area of Circuit in Square Mils)
- 2 Number of Layers of Metalization
- (Number of Package Leads)
- 4 \* b (Base Failure Rate)
- 5 \*C (Complexity Factor)
- 6 \* (Quality Factor)
- 7 \* F (Environmental Factor)